



01 Jan 2007

## Faculty Senate Minutes 2006 - 2007

Missouri University of Science and Technology Faculty Senate

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## **PUBLIC OCCASIONS DATES FOR 2006-2007**

### **Fall Semester:**

Fall Career Fair	Thursday, September 28, 2006
Fall Open House I	Saturday, September 30, 2006
Family Day	Saturday, September 30, 2006
Rolla Night at the Engineer's Club of St. Louis	Thursday, October 5, 2006
Homecoming	Friday & Saturday, Oct. 20-21, 2006
Forest Hills Country Club Recruiting Event	Thursday, October 26, 2006
Fall Open House II	Saturday, November 11, 2006
Commencement*	Saturday, December 16, 2006

### **Spring Semester**

Spring Career Fair	Wednesday, February 14, 2007
Spring Open House I (President's Day)	Monday, February 19, 2007
Spring Open House II (Good Friday)	Friday, April 6, 2007
Commencement*	Saturday, May 12, 2007

\*Previously established as part of the 2006-2007 calendar

NOTE: Student Council Free Day, originally planned for Friday, October 6, 2006, was removed from the Public Occasions dates because of the expansion of Thanksgiving vacation to a full week.

## **FALL SEMESTER 2006**

Open Registration Ends	August 17, Thursday
International Student Orientation	August 8, Tuesday
Fall Semester opens 8:00 a.m.	August 13, Sunday
Freshman Orientation Begins	August 13, Sunday
Transfer Student Orientation	August 16, Wednesday
Classwork begins 8:00 a.m.	August 21, Monday
Labor Day Holiday	September 4, Monday
Mid-Semester	October 14, Saturday
Thanksgiving vacation begins 8:00 a.m.	November 22, Wednesday
Thanksgiving vacation ends 8:00 a.m.	November 27, Monday
Last Class Day	December 8, Friday
Reading Day	December 9, Saturday
Final Examinations begin 8:00 a.m.	December 11, Monday
Final Examinations end 6:00 p.m.	December 15, Friday
Fall Semester closes 6:00 p.m.	December 15, Friday
December Commencement	December 16, Saturday

## **SPRING SEMESTER 2007**

Open Registration Ends	January 11, Thursday
International Student Orientation	January 9, Tuesday
Martin Luther King Jr. Recognition Holiday	January 15, Monday
Spring Semester opens 8:00 a.m.	January 16, Tuesday
Classwork begins 8:00 a.m.	January 16, Tuesday
Mid-Semester	March 10, Saturday
Spring Recess begins 8:00 a.m.	March 15, Thursday
Spring Recess ends 8:00 a.m.	March 19, Monday
Spring Break begins 8:00 a.m.	March 25, Sunday
Spring Break ends 8:00 a.m.	April 2, Monday
Last Class Day	May 11, Friday
Reading Day	May 12, Saturday
Final Examinations begin 8:00 a.m.	May 14, Monday
Final Examinations end 6:00 p.m.	May 18, Friday
Spring Semester closes 6:00 p.m.	May 18, Friday
May Commencement	May 19, Saturday

## **\*SUMMER SESSION 2007**

Open Registration Ends	June 8, Friday
Summer Session opens 8:00 a.m.	June 11, Monday
Classwork begins 8:00 a.m.	June 11, Monday
Independence Day Holiday (observed)	July 4, Wednesday
Final Examinations begin 8:00 a.m.	August 2, Thursday
Final Examinations end 12:30 p.m.	August 3, Friday
Summer Session closes 12:30 p.m.	August 3, Friday

\* Schedule shows regular eight-week Summer Session. Other special courses may be scheduled.

## **CLASS SESSIONS (EXCLUDING FINAL EXAMINATIONS)**

	<u>M</u>	<u>TU</u>	<u>W</u>	<u>TH</u>	<u>F</u>	<u>S</u>
Fall Semester	15	16	15	15	15	15
Spring Semester	15	16	16	15	15	15
Summer Semester	8	8	7	7	7	7

The faculty is reminded of the religious and other holidays that a substantial number of students may wish to observe.

**Volume XXXVII, Number 7**  
**Minutes of the Academic Council Meeting**  
**June 7, 2007**

**I. Call to Order, Roll, and Approval of Minutes**

The meeting was called to order at 13:30 by President Kurt Kosbar and roll was taken. The following absentees were noted: Stanley Woronick, Joseph Herdade, Yue-wen Huang, Ralph Wilkerson, Anne Cotterill, Martin Bohner, Gary Gadbury, Mark Mullin, Robert DuBois, James Martin, Bill Farenholtz, Shari Dunn-Norman, Paul Worsey, Gary Mueller, Levent Acar, Don Wunsch, Hal Nystrom, S.N. Balakrishnan, H.L. Tsai, Richard Hall, Caroline Fisher, Mariesa Crow, Paula Lutz, and Bill Schoenberg. The following substitutions were noted: Bob Laudon for Mohamed Abdelsalam.

The meeting minutes of April 12, 2007 were **approved** as submitted.

**II. Campus Reports and Responses**

**A. President Report – Kurt Kosbar**

Details were posted electronically in advance at the following link:

<http://campus.umn.edu/acadcoun/reports/president/2007/pres.06.07.07.pdf>

- a. A new Tenure policy developed by the campus Tenure Committee (chaired by Bruce McMillin) will be presented later today.
- b. Bylaws change – A draft version of the UMR Faculty Bylaws developed by the ad-hoc Bylaws committee (chaired by Doug Carroll) will be presented later today. If the AC is supportive of the Ad-Hoc committee's document, the Rules, Procedure and Agenda (RP&A) committee will work with the University's legal council over the summer, to resolve any issues they have with the proposal.
- c. Student Academic Regulations – The same ad-hoc committee which developed the faculty bylaws also developed a new set of Student Academic Regulations. The draft document has been endorsed by the Academic Freedom and Standards, and the Student Affairs committees, and will be presented later today.
- d. Undergraduate and Graduate Catalogs – The Registrar is working with the Ad-Hoc bylaws committee, to develop new catalogs to accommodate the new campus organization. These changes will need to be completed by the end of June 2007, to allow sufficient time to print catalogs for the fall semester.
- e. Senate Bill 389 – This bill is now law. It provides significant funding to UMR, to complete construction of Toomey Hall, and also increases funds available for scholarships. It also contains a host of other potentially significant changes to the way the University conducts its business.
- f. 1% Efficiency – At their April 2007 meeting, the Board of Curators Meeting called for the university to identify 1% of operating efficiencies next year, and to reallocate these funds to strategic initiatives and faculty salaries.
- g. Faculty Compensation – On May 31, 2007, UM System Interim President Dr. Gordon Lamb gave a presentation to the Board of Curators Compensation & Human Resources Committee.



In that presentation, he suggested that the UM system set a goal of bringing faculty salaries up to the mean of comparative institutions within 3 years. (All four campuses are currently below the mean.).

- h. Centers and Institutes – The Board of Curators has expressed interest in reviewing the general operation of the roughly 350 Centers and Institutes in the UM System. On May 31, Dr. Stephen Lehmkuhle made a presentation to the Board's Academic and Student Affairs Committee on this topic.

#### **B. Administrative Report – Chancellor J. F. Carney III**

- a. University name change developments – Chancellor Carney was successful in securing the name KMST in place of KUMR, our radio station.
- b. MAE Building – MOHELA had released \$15 million.
- c. Capital Campaign – above the \$115 million dollar mark.
- d. Commencement – The May commencement with two sessions went quite well.

#### **C. Administrative Report – Provost W. K. Wray**

- a. Enrollment and Research figures – Provost Wray presented the recent figures on the enrollment and research. Details can be found at the following link:

<http://campus.umr.edu/acadcoun/reports/provost/2007/prov.06.07.07.ppt>

#### **D. Staff Council Report – Kim Frazier**

No report.

#### **E. Student Council – Beth Groenke**

Some of Student Council's main goals for next year were presented:

- a. Create a campus-wide course semester listing to show which semesters courses have been taught over the past 5 years, and potentially list a tentative schedule of the next year's courses.
- b. Set up a dental clinic to provide preventative services to those affiliated with the university that cannot otherwise afford the services.
- c. Create a packet for students and advisors about common issues and "How To" resolve common problems.
- d. Create a listserv that the Student Body President can use to communicate directly with the entire student body.
- e. Put the previously developed Student Body President to Faculty listserv in use next semester.

#### **F. Council of Graduate Students – R. K. Singh**

No report.

### III. Reports of Standing and Special Committees

#### A. Curricula Committee

<http://campus.umn.edu/acadcoun/archive/curriculum/2007/curr.06.07.07.pdf>

Approval of submitted forms posted on the web with the exception of DC 0230 – motion was **passed** unanimously.

Approval of DC 0230, BS degree in Elementary Education with the Budgetary Affairs Committee's recommendation that no tenure track faculty be hired until there was confidence that the student numbers projected in the proposal were going to be achieved – motion was **passed** unanimously.

#### B. Budgetary Affairs Committee – D. Myers

Faculty/Staff headcounts are posted on the web:

<http://campus.umn.edu/acadcoun/archive/reports/Faculty.Staff.HeadCount.95.to.06.xls>

#### C. Facilities – K. Woelk

Facilities Planning Committee reported on the electric power problems that UMR has experienced recently. Voltage stability monitoring and notification procedures were presented. Details can be found at the following link:

<http://campus.umn.edu/acadcoun/archive/reports/facilities.plan.rpt.06.07.07.pdf>

It was moved that Physical Facilities be given access to the faculty list server for the purpose of e-mail notification of electrical power problems. The motion was **passed** unanimously.

#### D. Student Affairs – J. Smith

- a. It was moved to approve the constitution of THE MINESHAFT at UMR. The motion was **passed** unanimously.

The constitution is posted at the following link:

<http://campus.umn.edu/acadcoun/archive/reports/MineshaftConstitution.06.07.07.pdf>

- b. It was moved to approve the constitution of FRATERNAL ORDER OF LEADERS at UMR. The motion was **passed** unanimously.

The constitution is posted at the following link:

<http://campus.umn.edu/acadcoun/archive/reports/FOL.Const.06.07.07.pdf>

#### **E. Tenure – B. McMillin**

Doug Carroll presented a draft version of the new UMR Tenure and Promotion Procedures. It was **approved** with the following changes in the document linked below:

- (1) Section II.A.2: replace “departmental procedures” with “departmental faculty procedures”
- (2) Section II.A.6: replace “all departments” with “each department”
- (3) Section II.B.8: replace “the committee” with “the Review Committee” in the last sentence

<http://campus.umn.edu/acadcoun/archive/reports/promotion.tenure.06.07.07.pdf>

The following two motions were rejected:

- (1) Section II. B.4: Delete the last sentence: The campus review committee shall provide the provost with a recommendation on each appeal.
- (2) Insert Section II.B.11 as follows: There shall be a meeting of the Chancellor and Provost with the campus P&T committee for review of P&T recommendations for the purpose of improving future recommendations/decisions.

#### **F. Ad Hoc Bylaws – D. Carroll**

Doug Carroll presented a draft version of the new UMR Faculty Bylaws and Academic Regulations as follows:

<http://campus.umn.edu/acadcoun/archive/reports/faculty.bylaws06.07.07.ppt>

<http://campus.umn.edu/acadcoun/archive/reports/sum.major.changes.faculty.bylaws.05.29.2007.pdf>

<http://campus.umn.edu/acadcoun/archive/reports/faculty.bylaws.UMR.06.04.07.pdf>

<http://campus.umn.edu/acadcoun/archive/reports/academic.regs.2006.06.04.07.pdf>

The UMR Faculty Bylaws prepared by the ad-hoc committee was endorsed by the Academic Council.

#### **G. RP&A – D. Myers**

The following resolution was **passed** unanimously:

*Be it resolved that Academic Council allow the Global Studies Minor Program to begin their organization process following the process provide for in the revision of the bylaws under Special Programs.*

#### **IV. Old Business**

None

## **V. New Business and Announcements**

None

The meeting was adjourned at 15:00.

Respectfully Submitted,

Eun Soo Park  
Secretary, Academic Council

The logo consists of a black, irregular shape in the top-left corner. Inside this shape, the letters "UMR" are written in white, bold, sans-serif font.

**UMR**

# Academic Council Meeting

June 7, 2007

The logo is a black, irregular shape in the bottom-right corner. Inside this shape, the text "UNIVERSITY OF" is on the top line and "MISSOURI-ROLLA" is on the bottom line, both in white, sans-serif font.

**UNIVERSITY OF  
MISSOURI-ROLLA**

# Agenda

- Call to Order / Roll Call
  - Approval of 4/12/07 AC Minutes ([pdf](#))
  - Campus Reports
    - » AC President
      - [Presentation, pdf](#)
      - Draft UG Catalog, [Jan 1](#), [May 30](#), June 6 [A-E](#), [F-M](#), [N-Z](#)
    - » Administrative Report
    - » Staff Council
    - » Student Council
    - » Council of Grad. Students
  - Standing and Special Committees
    - » [Curricula](#)
    - » Budgetary Affairs
      - Faculty/Staff Demographics ([pdf](#), [excel](#))
    - » Facilities
      - [Presentation, pdf](#)
    - » Student Affairs
      - [FOL](#), [Mineshaft](#)
    - » Tenure
      - [Presentation](#)
      - Discussion of Changes ([pdf](#), [word](#))
      - Final Proposal ([pdf](#), [word](#))
    - » Ad Hoc Bylaws
      - [Presentation](#)
      - Summary – Major Bylaws Changes, ([pdf](#), [word](#))
      - Faculty Bylaws, ([pdf](#), [word](#))
      - Student Academic Regulations, ([pdf](#), [word](#))
    - » RP&A
  - Old Business
    - » [Referrals and Actionable Items](#)
  - New Business
  - Adjourn
- |                            |        |
|----------------------------|--------|
| K. Kosbar                  | 5 min  |
| J. Carney III, W. Wray,    | 5 min  |
| K. Frazier                 | 3 min  |
| B. Groenke                 | 3 min  |
| R. Singh                   | 0 min  |
| S. Fogg for K. Nisbett     | 5 min  |
| D. Myers                   | 5 min  |
| K. Woelk                   | 5 min  |
| J. Smith                   | 5 min  |
| D. Carroll for B. McMillin | 5 min  |
| D. Carroll                 | 10 min |
| D. Myers                   | 5 min  |

## **ACADEMIC COUNCIL (AC) PRESIDENT'S REPORT FOR JUNE 7, 2007 AC MEETING**

**Campus Reorganization – Tenure Policy** The campus Tenure Committee (Chaired by Dr. Bruce McMillin) developed, and the Academic Council endorsed, changes to the campus tenure regulations on 2/15/07. The Provost suggested changes to the regulations, and has been working with the Tenure Committee to modify the document. It is anticipated that the Tenure Committee will present a revised campus tenure policy at the 6/7/07 AC meeting. The campus tenure policy is ultimately set by the Provost.

**Campus Reorganization – UMR Faculty Bylaws** An ad-hoc committee, chaired by Dr. Doug Carroll, has developed a draft version of the UMR Faculty Bylaws, to accommodate the elimination of the school and college structures. The committee has held an open-forum to present their ideas, and collect comments, from the campus community. It is anticipated that Dr. Carroll will present the results of their efforts at the 6/7/07 AC meeting.

If the AC is supportive of the Ad-Hoc committee's document, the Rules, Procedure and Agenda (RP&A) committee will work with the University's legal council over the summer, to resolve any issues they have with the proposal. Hopefully this will be completed in time for the document to be discussed at the August 2007 UMR General Faculty Meeting. The UMR General Faculty would then be asked to vote by mail ballot following the August meeting. If this vote is favorable, the proposal will be forwarded to the Board of Curators.

The UMR Faculty Bylaws are part of the University of Missouri System Collected Rules and Regulations. As such, changes to the bylaws are not effective unless, and until, they are approved by the Board of Curators. Under the most optimistic scenario, the Board would consider the new Bylaws at their October 2007 meeting.

**Campus Reorganization - Student Academic Regulations** The same ad-hoc committee which developed the faculty bylaws, also developed a new set of Student Academic Regulations, again to accommodate the elimination of the schools and college. The draft document has been endorsed by the Academic Freedom and Standards, and the Student Affairs committees, and will most likely be presented to the AC at either the June or September 2007 meetings. The Academic Council has the authority to set the Student Academic Regulations - no additional approvals are required.

**Campus Reorganization – Undergraduate and Graduate Catalogs** The UMR catalogs make a number of references to schools and college. The Registrar is working with the Ad-Hoc bylaws committee, to develop new catalogs which eliminate all these references, but leaves the degree requirements unchanged. These changes will need to be completed by the end of June 2007, to allow sufficient time to print catalogs for the fall semester.



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# **ACADEMIC COUNCIL REPORT**

**WARREN K. WRAY  
PROVOST AND  
EXECUTIVE VICE CHANCELLOR  
FOR ACADEMIC AFFAIRS**

**June 7, 2007**



**UNIVERSITY OF  
MISSOURI-ROLLA**





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# **ENROLLMENT MANAGEMENT**



**UNIVERSITY OF  
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## UMR - Enrollment Management Services WEEKLY ENROLLMENT REPORT

			Fall 2002 (PS) 5/28/2002	Fall 2003 (PS) 5/28/2003	Fall 2004 (PS) 5/28/2004	Fall 2005 (PS) 5/28/2005	Fall 2006 (PS) 5/28/2006	Fall 2007 (PS) 5/28/2007
<b>FRESHMEN</b>	<b>Inquiries</b>	Beg. Fr. Inquiries	13328	10980	9733	10306	10948	11025
		HS Jr. Inquiries	7599	6519	6101	6274	5774	5402
	<b>Applications</b>		1903	1799	1835	1903	2045	2297
		Pending	52	56	41	62	67	78
		Withdrawn Apps	24	14	6	1	10	2
	<b>Admitted</b>		1720	1666	1702	1765	1859	2074
		Cancelled Admits	417	155	465	326	215	429
		Denied	107	63	86	75	109	143
	<b>Enrolled</b>		432	559	577	636	629	714
<b>TRANSFERS</b>	<b>Inquiries</b>		632	614	789	686	958	843
	<b>Applications</b>		365	362	329	346	390	386
		Pending	94	63	55	86	113	105
		Withdrawn Apps	0	0	7	3	12	15
	<b>Admitted</b>		262	289	257	249	259	263
		Cancelled Admits	5	4	9	1	4	8
		Denied	9	10	10	8	6	3
	<b>Enrolled</b>		111	166	102	144	98	113
<b>GRADUATES</b>	<b>Inquiries</b>		3270	2332	1225	1327	1756	1705
	<b>Applications</b>		3059	2391	1203	1179	1535	1471
		Pending	895	607	229	147	202	194
		Withdrawn Apps	5	20	7	7	11	3
	<b>Admitted</b>		1526	1110	600	655	786	763
		Cancelled Admits	0	0	0	0	0	0
		Denied	633	654	367	370	536	511
	<b>Enrolled</b>		55	60	32	41	39	71
<b>ORIENTATION</b>	<b>Freshmen</b>	Total Reservations	781	811	823	867	966	1,016
	<b>Transfer</b>	Total Reservations	N/A	68	104	53	96	71
<b>HOUSING AGREEMENTS</b>		Returning	617	659	687	875	931	778
		Beginning Freshmen	658	712	714	769	798	863
		New Transfers	N/A	N/A	N/A	N/A	N/A	45
		Waivers	N/A	N/A	N/A	N/A	N/A	37
		Greek Housing/CCH	N/A	N/A	N/A	N/A	N/A	80
		<b>TOTAL</b>	1,275	1,371	1,401	1,644	1,729	1,803
<b>4TH WEEK CENSUS</b>		Beginning Freshmen	815	897	877	914	977	
		New Transfers	261	281	288	279	266	
		Graduates	423	348	402	355	392	
		<b>TOTAL</b>	1,499	1,526	1,567	1,548	1,635	

PS - data from PeopleSoft system

Unofficial Internal Planning Data - not intended for public release.

**\*\*NOTE:**Numbers that Housing reports from for bed capacity include only returning, new freshman and new transfer

## 2007 Preview, Registration, and Orientation UPDATE May 25, 2007

2005	Total # Students Registered	Total # Invitations Sent	2006	Total # Students Registered	Total # Invitations Sent	2007	Total # Students Registered	Total # Invitations Sent
Jan 7	235	1364	Jan 6	281	1540	Jan 5	303	1740
Jan 14	281	1437	Jan 13	325	1542	Jan 12	364	1740
Jan 21	319	1485	Jan 20	350	1614	Jan 19	382	1811
Jan 28	355	1501	Jan 27	393	1646	Jan 26	432	1811
	Reminder Cards (1123)			Reminder Cards (1219)			Reminder Cards (1326)	
Feb 4	421	1544	Feb 3	441	1656	Feb 2	471	1889
Feb 11	479	1575	Feb 10	485	1656	Feb 9	515	1913
Feb 18	535	1617	Feb 17	513	1724	Feb 16	559	1959
Feb 25	585	1626	Feb 24	543	1753	Feb 23	619	1981
Mar 4	621	1639	Mar 3	596	1771	Mar 2	666	1981
Mar 11	659	1670	Mar 10	657	1771	Mar 9	722	2008
Mar 18	684	1677	Mar 17	699	1812	Mar 16	751	2013
Mar 25	696	1677	Mar 24	732	1817	Mar 23	779	2024
	Reminder Cards (981)			Reminder Cards (908)			Reminder Cards (1245)	
April 1	719	1694	Mar 31	772	1824	Mar 30	806	2038
April 8	743	1694	April 7	803	1824	Apr 6	849	2038
April 15	772	1719	April 14	855	1833	Apr 13	886	2046
April 22	785	1736	April 21	866	1833	Apr 20	915	2046
April 29	801	1736	April 28	908	1835	Apr 27	954	2050
May 6	834	1736	May 5	941	1835	May 4	982	2052
	Reminder Cards (865)							
May 13	842	1750	May 12	946	1863	May 11	1008	2063
				Reminder Cards (766)			Reminder Cards (1018)	
May 20	857	1750	May 19	958	1879	May 18	1011	2063
May 27	867	1750	May 26	966	1879	May 25	1016	2067
June 3	873	1765	June 2	972	1882	June 1		
June 10	876	1766	June 9	978	1885	June 8		
June 17	876	1776	June 16	984	1902	June 15		

# Enrollment Update

## Summer Semester Pre-Enrollment

	<b>SS2006</b>	<b>SS2007</b>	<b>Change</b>
Total	1430	1531	+ 7.1%

## Fall Semester Pre-Enrollment

	<b>FS2006</b>	<b>FS2007</b>	<b>Change</b>
Total	4212	4500	+ 6.8%



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# **RESEARCH**



**UNIVERSITY OF  
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- ◆ UMR received three of the 62 FY07 Graduate Assistance in Areas of National Need (GAANN) awards from the U.S. Department of Education. Congratulations to Drs. Belarbi, Madria, Venayagamoorthy and their team members!
- ◆ Proposal activities through April 2007
  - Proposals awarded: \$30.96M (up 4.4%)
  - Proposals submitted: \$97.62M (down 3.3%)
- ◆ F&A recovery through April: \$3.69M (down 15.8%)
- ◆ Externally sponsored grant and contract expenditures through April 2007: \$25.06M (down 16%)

## FY 07: Proposals Awarded through April

	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Totals
Biol. Sci.	0	5,000	0	0	0	0	75,000	72,218	0	196,898			349,117
Chem.	612,910	12,667	120,000	78,400	18,562	0	0	157,941	171,081	548,397			1,719,958
Comp. Sci.	294,281	0	87,160	0	0	0	0	0	0	226,581			608,022
Engl. & Tech. Comm.	0	0	0	0	0	0	0	0	0	0			0
Hist./PS	0	0	0	0	0	0	0	0	0	0			0
Math/Stat	0	0	0	0	0	30,695	51,294	0	100,000	0			181,989
Phil.	0	0	0	0	0	0	0	0	0	0			0
Phys.	273,910	-20,668	98,432	20,668	7,556	0	100,000	90,000	224,999	150,000			944,898
Psych.	98,604	98,152	0	0	0	0	0	0	0	0			196,756
<b>A&amp;S Totals:</b>	<b>1,279,706</b>	<b>95,151</b>	<b>305,592</b>	<b>99,068</b>	<b>26,118</b>	<b>30,695</b>	<b>226,294</b>	<b>320,159</b>	<b>496,080</b>	<b>1,121,876</b>	<b>0</b>	<b>0</b>	<b>4,000,739</b>
<b>Materials Sci. &amp; Eng.</b>	<b>265,000</b>	<b>580,476</b>	<b>385,513</b>	<b>294,984</b>	<b>1,210,963</b>	<b>464,176</b>	<b>698,670</b>	<b>541,029</b>	<b>236,917</b>	<b>45,150</b>			<b>4,722,878</b>
<b>Mining &amp; Nuclear Eng.</b>	<b>840,818</b>	<b>172,965</b>	<b>144,713</b>	<b>330,583</b>	<b>52,077</b>	<b>14,189</b>	<b>0</b>	<b>6,064</b>	<b>566,997</b>	<b>389,573</b>			<b>2,517,978</b>
<b>Geol. Sci. &amp; Eng.</b>	<b>10,000</b>	<b>172,642</b>	<b>130,000</b>	<b>30,000</b>	<b>11,789</b>	<b>161,914</b>	<b>164,507</b>	<b>3,000</b>	<b>0</b>	<b>24,500</b>			<b>708,352</b>
<b>SOEER</b>	<b>1,115,818</b>	<b>926,083</b>	<b>660,226</b>	<b>655,567</b>	<b>1,274,829</b>	<b>640,279</b>	<b>863,177</b>	<b>550,093</b>	<b>803,913</b>	<b>459,223</b>	<b>0</b>	<b>0</b>	<b>7,949,209</b>
<b>Interdisciplinary Eng.</b>	<b>50,000</b>	<b>6,000</b>	<b>77,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,000</b>			<b>139,000</b>
<b>Chem. &amp; Biol. Eng.</b>	<b>1,490</b>	<b>2,500</b>	<b>10,175</b>	<b>14,450</b>	<b>271,600</b>	<b>3,991</b>	<b>0</b>	<b>0</b>	<b>436,498</b>	<b>79,012</b>			<b>819,716</b>
<b>Civil, Arch. &amp; Env. Eng.</b>	<b>54,470</b>	<b>416,115</b>	<b>272,080</b>	<b>457,038</b>	<b>38,593</b>	<b>2,000</b>	<b>25,000</b>	<b>284,051</b>	<b>757,375</b>	<b>812,092</b>			<b>3,118,814</b>
<b>Elec. &amp; Comp. Eng.</b>	<b>15,000</b>	<b>316,937</b>	<b>1,424,846</b>	<b>372,170</b>	<b>486,390</b>	<b>106,985</b>	<b>464,966</b>	<b>534,336</b>	<b>398,364</b>	<b>435,558</b>			<b>4,555,553</b>
<b>Engr. Mgt. &amp; Sys. Eng.</b>	<b>0</b>	<b>158,620</b>	<b>0</b>	<b>499,642</b>	<b>232,800</b>	<b>0</b>	<b>20,000</b>	<b>21,627</b>	<b>0</b>	<b>0</b>			<b>932,689</b>
<b>Mech. &amp; Aero. Eng.</b>	<b>514,280</b>	<b>326,534</b>	<b>60,512</b>	<b>105,000</b>	<b>1,734,744</b>	<b>354,795</b>	<b>83,999</b>	<b>44,650</b>	<b>87,600</b>	<b>575,997</b>			<b>3,888,111</b>
<b>SOE Totals</b>	<b>635,240</b>	<b>1,226,707</b>	<b>1,844,613</b>	<b>1,448,300</b>	<b>2,764,127</b>	<b>467,771</b>	<b>593,965</b>	<b>884,663</b>	<b>1,679,838</b>	<b>1,908,659</b>	<b>0</b>	<b>0</b>	<b>13,453,883</b>
<b>Econ. &amp; Finance</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>37,551</b>	<b>0</b>	<b>0</b>	<b>0</b>			<b>37,551</b>
<b>Business Admin.</b>	<b>98,604</b>	<b>861,940</b>	<b>0</b>	<b>0</b>	<b>60,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			<b>1,020,544</b>
<b>Info Sci. &amp; Tech.</b>	<b>116,400</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			<b>116,400</b>
<b>SMIS</b>	<b>215,004</b>	<b>861,940</b>	<b>0</b>	<b>0</b>	<b>60,000</b>	<b>0</b>	<b>37,551</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,174,495</b>
<b>Enrollment Mgt</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>
<b>International Affairs</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>
<b>Minority Affairs</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>
<b>Other</b>	<b>0</b>	<b>10,000</b>	<b>0</b>	<b>620,166</b>	<b>0</b>	<b>11,338</b>	<b>1,980,000</b>	<b>0</b>	<b>0</b>	<b>175,000</b>			<b>2,796,504</b>
<b>RPDC</b>	<b>21,550</b>	<b>0</b>	<b>659,924</b>	<b>0</b>	<b>678,780</b>	<b>0</b>	<b>7,500</b>	<b>0</b>	<b>0</b>	<b>20,550</b>			<b>1,388,304</b>
<b>KUMR</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>64,978</b>	<b>20,191</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>108,863.54</b>			<b>194,033</b>
<b>Grand Totals:</b>	<b>3,267,318</b>	<b>3,119,881</b>	<b>3,470,355</b>	<b>2,823,101</b>	<b>4,868,832</b>	<b>1,170,274</b>	<b>3,708,487</b>	<b>1,754,916</b>	<b>2,979,831</b>	<b>3,794,171</b>	<b>0</b>	<b>0</b>	<b>30,957,166</b>

+4.4% compared to FY 06

**Total: \$30.96M**

## FY 07: Proposals Submitted through April

	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Totals
Biol. Sci.	644,137	209,636	13,774	283,510	42,891	0	137,360	1,564,997	80,628	621,368			3,598,301
Chem.	1,041,565	300,749	506,022	494,521	1,474,441	1,029,705		441,178	652,949	1,074,064			7,015,194
Comp. Sci.	1,040,264	0	243,880	0	1,352,261	0	936,407	1,306,793	336,140	395,796			5,611,541
Engr. & Tech. Comm.	0	0	0	0	0	0	0	0	0	0			0
Hist./PS	0	0	0	0	0	0	0	0	0	0			0
Math/Stat	0	0	51,294	194,855	6,600	30,895	0	162,330	0	0			445,774
Phil.	0	0	0	0	131,126	0	22,050	0	109,045	0			262,221
Phys.	40,000	0	1,016,960	580,526	811,386	130,320	420,928	228,494	314,999	49,995			3,593,609
Psych.	98,604	98,152	0	0	63,336	0		9,340		0			269,431
<b>A&amp;S Totals:</b>	<b>2,864,569</b>	<b>608,537</b>	<b>1,831,930</b>	<b>1,553,412</b>	<b>3,882,041</b>	<b>1,190,720</b>	<b>1,516,745</b>	<b>3,713,132</b>	<b>1,493,762</b>	<b>2,141,222</b>	<b>0</b>	<b>0</b>	<b>20,796,071</b>
Materials Sci. & Eng.	699,707	2,050,548	214,718	466,553	7,320,522	1,237,712	129,562	964,122	2,376,602	274,580			15,734,625
Mining & Nuclear Eng.	846,244	73,200	2,240	457,195	57,691	14,189	122,438	199,990	24,499	1,275,000			3,072,684
Geol. Sci. & Eng.	0	300,260	0	211,207	163,666	411,937	391,984	149,233	249,307	0			1,877,593
<b>SOMEER</b>	<b>1,545,951</b>	<b>2,424,007</b>	<b>216,958</b>	<b>1,134,955</b>	<b>7,541,879</b>	<b>1,663,838</b>	<b>643,983</b>	<b>1,313,345</b>	<b>2,650,408</b>	<b>1,549,580</b>	<b>0</b>	<b>0</b>	<b>20,684,903</b>
Interdisciplinary Eng	0	93,724	61,029	462,090	462,230	325,573	0	611,086	382,802	6,000			2,404,533
Chem & Biol. Eng.	1,053,594	736,242	358,703	0	400,312	252,268	16,504	405,740	1,246,499	85,434			4,555,297
Civil, Arch. & Env. Eng.	45,000	1,050,445	381,019	805,405	950,935	2,755,488	649,945	2,238,596	1,030,475	602,596			10,509,884
Elec. & Comp. Eng.	1,683,831	2,718,983	532,688	2,464,835	3,163,675	62,000	3,011,935	3,107,102	2,121,847	1,786,090			20,652,986
Engr. Mgt. and Sys. Eng.	499,640	188,151	79,907	0	521,278	70,936	392,217	410,587	108,045	266,947			2,537,708
Mech. & Aero. Eng.	1,287,543	878,306	323,027	921,775	2,530,063	451,143	110,646	1,652,193	262,583	1,110,503			9,527,781
<b>SOE Totals</b>	<b>4,569,608</b>	<b>5,665,851</b>	<b>1,736,371</b>	<b>4,654,105</b>	<b>8,028,493</b>	<b>3,917,388</b>	<b>4,181,247</b>	<b>8,425,304</b>	<b>5,152,251</b>	<b>3,857,571</b>	<b>0</b>	<b>0</b>	<b>50,188,188</b>
Econ. & Finance	0	0	0	0	0	37,551	0	9,340	0	0			46,891
Business Admin.	98,604	861,940	0	0	0	0	0	18,679	0	0			979,223
Info Sci. & Tech.	0	0	0	0	0	0	0	149,939	0	0			149,939
<b>SMIS</b>	<b>98,604</b>	<b>861,940</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>37,551</b>	<b>0</b>	<b>177,957</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,176,052</b>
Enrollment Mgt.	0	0	0	0	0	0	0	0	0	0			0
International Affairs	0	0	0	0	0	0	0	0	0	0			0
Grad/UG Studies	0	0	0	0	0	0	0	0	0	0			0
Other	0	10,000	0	505,604	1,338	0	1,980,000	0	175,000	535,000			3,206,942
RPDC	1,332,038	0	0	0	0	0	7,500	0	0	33,483			1,373,021
KUMR	0	0	0	0	129,955	20,191	0	0	0	45,960			196,106
<b>Grand Totals:</b>	<b>10,410,769</b>	<b>9,570,335</b>	<b>3,785,259</b>	<b>7,848,077</b>	<b>19,583,706</b>	<b>6,829,688</b>	<b>8,329,475</b>	<b>13,629,738</b>	<b>9,471,421</b>	<b>8,162,816</b>	<b>0</b>	<b>0</b>	<b>97,621,283</b>

-3.3% compared to FY 06

**Total: \$97.62M**

UNIVERSITY OF  
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# Proposals Awarded Year-over-Year Comparison

	Dollars thru April			Number of Proposals & AMENDMENTS thru April		
	FY05	FY06	FY07	FY05	FY06	FY07
Biol. Sci.	\$53,963	\$485,897	\$349,117	7	2	4
Chem.	\$1,770,851	\$1,459,815	\$1,719,958	12	15	9
Comp. Sci.	\$867,767	\$401,061	\$608,022	5	2	4
Engl. & Tech. Comm.	\$0	\$3,165	\$0	0	0	0
Hist./PS	\$7,224	\$0	\$0	1	0	0
Math/Stat	\$145,371	\$273,107	\$181,989	4	4	3
Phil.	\$26,732	\$27,340	\$0	0	1	0
Phys.	\$752,466	\$1,160,445	\$944,898	7	5	8
Psych.	\$64,787	\$198,675	\$196,756	0	0	1
A&S Totals:	\$3,689,161	\$4,009,504	\$4,000,739	36	29	29
Materials Sci. & Eng.	\$3,466,298	\$6,296,583	\$4,722,878	53	57	60
Mining & Nuclear Eng.	\$2,029,055	\$1,597,112	\$2,517,978	16	11	23
Geol. Sci. & Eng.	\$751,441	\$898,505	\$708,352	13	19	14
SoMEER	\$6,246,794	\$8,792,200	\$7,949,209	82	87	97
Interdisciplinary Eng.	\$26,177	\$239,454	\$139,000	3	3	3
Chem. & Biol. Eng.	\$100,000	\$788,942	\$819,716	2	4	4
Civil, Arch. & Env. Eng.	\$2,571,741	\$4,729,543	\$3,118,814	43	43	35
Elec. & Comp. Eng.	\$3,407,033	\$3,657,811	\$4,555,553	38	56	66
Engr. Mgt. & Sys. Eng.	\$810,826	\$798,931	\$932,689	6	4	3
Mech. & Aero. Eng.	\$2,531,839	\$3,569,253	\$3,888,111	23	29	23
SOE Totals	\$9,447,616	\$13,783,934	\$13,453,883	117	139	134
Econ. & Finance	\$11,779	\$9,279	\$37,551	2	0	1
Business Admin.	\$1,544,518	\$1,065,286	\$1,020,544	9	5	3
Info Sci. & Tech.	\$205,797	\$447,786	\$116,400	1	1	1
SMS	\$1,762,094	\$1,522,351	\$1,174,495	12	6	5
Enrollment Mgt	\$0	\$0	\$0	0	0	0
International Affairs	\$0	\$135,624	\$0	0	3	0
Minority Affairs	\$0	\$14,000	\$0	0	0	0
Other	\$20,723	\$580,676	\$2,796,504	2	8	9
RPDC	\$689,955	\$605,494	\$1,388,304	6	2	8
KUMR	\$124,394	\$215,814	\$194,033	2	3	6
Grand Totals:	\$21,980,737	\$29,659,597	\$30,957,166	257	277	288

# Proposals Submitted Year-over-Year Comparison

	Dollars thru April			Number of Proposals thru April		
	FY05	FY06	FY07	FY05	FY06	FY07
Biol. Sci.	\$4,149,658	\$4,024,842	\$3,598,301	8	8	7
Chem	\$8,928,588	\$6,133,911	\$7,015,194	24	21	14
Comp. Sci.	\$7,868,998	\$2,778,250	\$5,611,541	18	7	6
Engl. & Tech. Comm.	\$140,688	\$117,982	\$0	0	0	0
Hist./PS	\$2,224	\$0	\$0	0	0	0
Math/Stat	\$1,881,479	\$1,379,863	\$445,774	12	9	1
Phil.	\$26,732	\$296,354	\$262,221	0	1	1
Phys.	\$3,392,892	\$2,323,157	\$3,593,609	9	10	7
Psych.	\$985,910	\$501,851	\$269,431	3	3	11
A&S Totals:	\$27,624,151	\$17,556,209	\$20,796,071	74	59	47
Materials Sci. & Eng.	\$19,926,033	\$12,610,785	\$15,734,625	63	52	62
Mining & Nuclear Eng.	\$7,120,018	\$11,178,230	\$3,072,684	33	33	21
Geol. Sci. & Eng.	\$5,735,087	\$1,615,120	\$1,877,593	30	23	13
SoMEER	\$33,039,785	\$25,404,136	\$20,684,903	126	108	96
Interdisciplinary Eng.	\$2,436,484	\$2,317,210	\$2,404,533	6	8	7
Chem. & Biol. Eng.	\$5,865,124	\$4,636,018	\$4,555,297	16	15	8
Civil, Arch. & Env. Eng.	\$8,722,210	\$13,699,476	\$10,509,884	63	62	37
Elec. & Comp. Eng.	\$15,443,882	\$15,674,983	\$20,652,986	70	80	70
Engr. Mgt. & Sys. Eng.	\$5,826,260	\$3,195,559	\$2,537,708	13	10	5
Mech. & Aero. Eng.	\$13,151,997	\$14,596,051	\$9,527,781	49	46	31
SOE Totals	\$51,445,959	\$54,119,298	\$50,188,188	217	221	159
Econ. & Finance	\$215,591	\$54,438	\$46,891	3	1	1
Business Admin.	\$428,168	\$1,209,608	\$979,223	5	4	3
Info Sci. & Tech.	\$502,139	\$385,140	\$149,939	1	1	1
SMS	\$1,145,898	\$1,649,185	\$1,176,052	9	6	5
Enrollment Mgt	\$0	\$0	\$0	0	0	0
International Affairs	\$0	\$297,514	\$0	0	2	0
Minority Affairs	\$308,728	\$0	\$0	1	1	0
Other	\$149,083	\$1,239,342	\$3,206,942	3	7	11
RPDC	\$227,593	\$627,044	\$1,373,021	5	3	9
KUMR	\$0	\$87,612	\$196,106	0	1	4
Grand Totals:	\$113,941,197	\$100,980,340	\$97,621,283	435	408	331

## *F & A Recovery through April*

<b>Accumulative</b>	<b>FY 03</b>	<b>FY 04</b>	<b>FY 05</b>	<b>FY 06</b>	<b>FY 07</b>	<b>Difference</b>
July	\$539,222.98	\$568,986.17	\$708,957.42	\$649,095.83	\$573,863.45	(\$75,232.38)
Aug	1,135,429.87	1,272,534.18	1,518,352.97	1,272,491.65	1,048,043.33	(224,448.32)
Sept	1,435,934.13	1,755,965.90	1,728,510.56	1,699,804.82	1,476,625.91	(223,178.91)
Oct	1,612,316.51	2,210,789.19	1,911,463.96	2,152,316.16	1,839,059.90	(313,256.26)
Nov	1,910,051.94	2,600,920.17	2,327,500.93	2,672,872.60	2,186,866.82	(486,005.78)
Dec	2,510,535.23	2,788,500.09	2,770,280.61	3,059,691.00	2,461,268.33	(598,422.67)
Jan	2,834,030.34	3,125,391.69	3,308,406.56	3,347,069.07	2,704,489.30	(642,579.77)
Feb	3,085,112.45	3,406,329.71	3,652,049.61	3,662,134.97	3,110,682.93	(551,452.04)
Mar	3,547,951.02	3,595,816.58	4,073,608.92	4,052,411.87	3,421,460.93	(\$630,950.94)
Apr	3,976,780.94	4,135,500.00	4,455,815.87	4,387,291.25	3,694,839.21	(\$692,452.04)
May	4,419,077.75	4,639,139.80	4,874,424.87	4,877,536.21		
June	5,519,707.82	5,622,103.99	5,616,873.53	5,651,383.39		



**UMR**

# **UNDERGRADUATE AND GRADUATE STUDIES**



**UNIVERSITY OF  
MISSOURI-ROLLA**

The logo consists of a black triangle pointing downwards, with the letters 'UMR' in white, bold, sans-serif font inside it.

**UMR**

# **Academic Advising Webinar**

***Expanding Your Comfort Zone:  
Strategies for Developing and Demonstrating  
Cultural Competence in Academic Advising,***

a live Internet-broadcast Webinar event on

**Tuesday, June 12, 2007**

**1:00-2:30 PM**

**UMR Havener Center**

Please RSVP to Amy Gillman ([gillman@umr.edu](mailto:gillman@umr.edu)) or Sunnie Hughes ([hughessu@umr.edu](mailto:hughessu@umr.edu)) by Thursday, June 7, 2007.

The logo is a black triangle pointing upwards, with the text 'UNIVERSITY OF MISSOURI-ROLLA' in white, sans-serif font inside it.

UNIVERSITY OF  
MISSOURI-ROLLA

# **Hit the Ground Running- 2007**

Hit the Ground Running (HGR), UMR's high school-to-freshman year summer transition program, is expected to have a record high number of attendees for the July 8th-28<sup>th</sup> program.

HGR has proven to benefit UMR students significantly in assisting them to quickly establish realistic academic expectations and strategies to meet the requirements of coursework expectations, campus life, and community involvement at UMR.

# Honors Academy Recruiting

The Office of Undergraduate & Graduate Studies recently sent letters of invitation and Honors Academy brochures to over 300 prospective students who are eligible for membership in the Honors Academy for Fall 2007.



# **Re-Accreditation Self Study**

## **Current Happenings/Project Timeline:**

- Sub-committee Outlines Done/Chancellor & Provost Review: June 8, 2007
- HLC liaison, Mary Breslin, to visit UMR on June 13-14, 2007
- Self-Study Report Compilation Begins: May-September 2007
- **NCA HLC Comprehensive Review Team Visit Dates: February 23-25, 2009**



**UMR**

# **SCHOOL OF EXTENDED LEARNING**

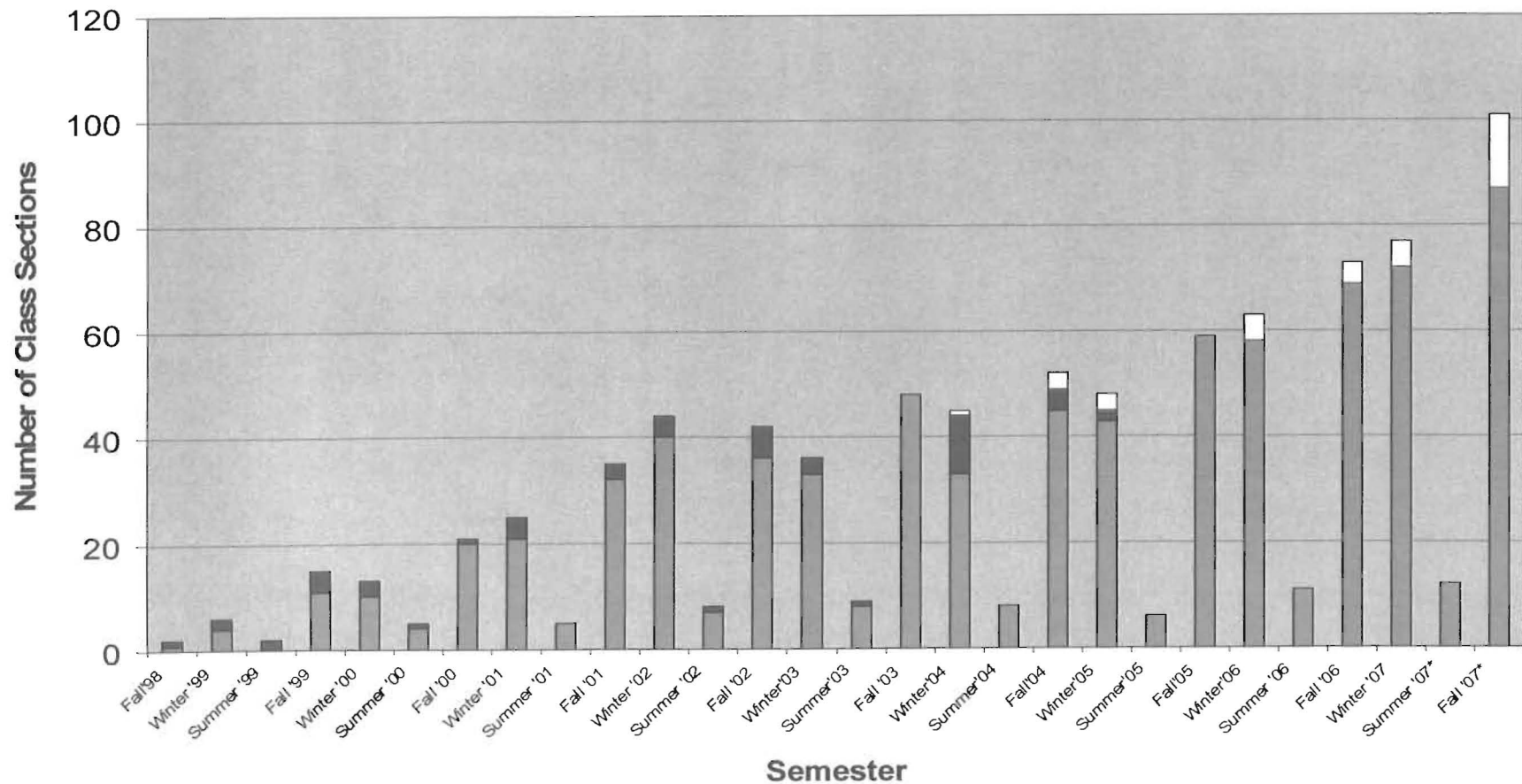
**UNIVERSITY OF  
MISSOURI-ROLLA**

## School of Extended Learning Academic Council Report

May 2007

The Video Communications Center is projecting significant growth for FS 2007 as indicated in the accompanying graph below.

### UMR VCC Distance Class Sections



- Outstanding Teaching Awards were announced for the following faculty at a luncheon held on April 23, 2007.
- Awards of Excellence for those receiving a perfect 4.0 rating.
  - » Richard Bullock
  - » David Enke
  - » Scott Grasman
  - » Roger LaBoube
  - » Robert Laney
  - » Harold Wagner, Jr.
- Award of Commendation for outstanding performance slightly below 4.0
  - » Victor Birman
  - » Ronald Carson
  - » K. Chandrashekhara
  - » Leroy Cox
  - » Lokesh Dharani
  - » Benjamin Dow
  - » Xiaoqing Liu
  - » Ronaldo Luna
  - » Norbert Maerz
  - » Ann Miller
  - » Donald Myers
  - » E. William Showalter
  - » Douglas Swift
  - » Maciej Zawodniok

**School of Extended Learning**  
**Academic Council Report**  
May 2007

- **Dr. Juma Al Ghailani, Dean and Managing Director of Mazoon College, Muscat, Oman, made his annual visit to UMR May 9-13, 2007. The purpose of this visit was to discuss our international affiliation agreement and to attend UMR's undergraduate commencement ceremony on May 12.**
- **Last month, Chancellor Carney, Dr. Henry Wiebe and Jay Goff visited several institutions in Malaysia to discuss Model Transfer Programs. Two agreements were finalized and signed during this trip: Taylor's University College and INTI International University. In addition, PETRONAS has agreed to send several fully funded students to UMR for completion of their degrees and three additional applications have been received from INTI.**

- **In conjunction with the above trip, Dr. Tan Yew Sing, President, and Dr. Tee Meng Yew, Academic Director of INTI visited the UMR campus on Friday, May 25 and Saturday, May 26 with the purpose of further strengthening the relationship between the two institutions.**
  
- **The Intensive English Program sponsored an end of the semester picnic for all IEP students, teachers, participants in the Conversation Partner program, and International Affairs staff members. Our special guests were members of the Missouri Department of Conservation – Agent Steve Zap, Agent Jason Braunecker, Rob Chapman, Brian Hall, Lee Hughes, and Nick Gironde. They helped introduce the international students to another Ozark tradition --- fishing. They brought fishing poles so that the students could practice fishing skills while learning about Missouri fishing regulations.**



**UMR**

# **COLLEGE OF ARTS AND SCIENCES**



**UNIVERSITY OF  
MISSOURI-ROLLA**

- Sanjay Madria and his team (Maggie Cheng, Fikret Ercal, Jagannathan, and Genda Chen) received funding from DOE for 3 years in the amount of \$383,640. This grant will provide fellowships for PhD students who will study “Secure and Adaptable Energy-efficient Sensor Networks for Infrastructure Monitoring.”

- - Jennifer Leopold and Anne Maglia have received funding from NSF for 3 years at \$350k/year. The project is entitled "Semi-Automated Construction of an Ontology for Amphibian Morphology."
- Jim Bogan will be presenting his BRAZIOLOGY—three poetic documentaries made in Brazil—at the Brazilian-American Cultural Institute in Washington DC on June 6.





**UMR**

# **SCHOOL OF MANAGEMENT AND INFORMATION SYSTEMS**



**UNIVERSITY OF  
MISSOURI-ROLLA**

# **Positive Happenings Business Administration**

**Graduate certificate in Business**

**Essentials in final stage of approval.**

**Center for Enterprise Resource Planning  
in final stage of approval.**

**Negotiating with several universities in  
China to establish agreements.**

**First MBA students participating in great  
summer internships.**

John F. Carney III  
Academic Council  
June 7, 2007

- Summary of May - June Curators' meeting
- University name change developments
- MAE Building
- Capital campaign news *Above \$115.*
- Commencement(s)

# **Facilities & Planning Report - Electrical Power Issues**

- Voltage variances can effect the operation of sensitive research and teaching instrumentation. Concerns range from instabilities of equipment to malfunctions or even hazards (such as reaching dangerously high temperatures when cooling systems are affected).
- During Feb./March 2007, insufficient voltage (e.g., 194 V instead of 208 V) was supplied from the new, leased transformer. The problem was fixed during a scheduled intentional power outage during spring break. A notification of this scheduled outage reached many faculty too late or not at all.

# Facilities & Planning Report - Electrical Power Issues

- In March 2007, RMU supplied the campus with low voltage because of power line construction in the vicinity of UMR. Faculty reported problems with research and teaching instrumentation and felt insufficiently informed.
- In purchasing the new transformers, UMR will ask for alternate bids that include tap changers that automatically manage high or low voltage condition.

# **Facilities & Planning Report - Electrical Power Issues**

- An effective notification procedure is desired when low-voltage or high-voltage conditions occur at  $\pm 4\%$  of nominal value (e.g., below 200 V or above 216 V for 208 V power lines).
- No effective monitoring procedure exists so far for the electrical power on campus. In the future, power plant operators should monitor voltage every two hours. Monitoring will be more frequent during voltage instabilities (low-voltage or high-voltage conditions). RMU generally notifies UMR when they sense a low voltage conditions.

# Facilities & Planning Report - Electrical Power Issues

- A procedure of notification is agreed upon:
- **Goal of this notification procedure is to protect sensitive research and teaching instrumentation, ensure smooth and stable operation of said instrumentation, and provide for sufficient time to execute protective procedures in case of power droops and outages.**
  - » Physical Facilities will be responsible for monitoring voltage during daytime hours. Regular monitoring period is 8:00 a.m. to 4:30 p.m.
  - » Physical Facilities will immediately notify all faculty if electrical power instabilities are monitored.
  - » Physical Facilities will further notify all faculty of scheduled power outages two week in advance or, in case of emergencies, as soon as possible.

# Facilities & Planning Report - Electrical Power Issues

- Motion:
  - » Physical Facilities will be given access to the ALLFAC-L listserv for the purpose of e-mail notification of electrical power problems





# Ad-Hoc Committee: Student Academic Regulations Faculty Bylaws

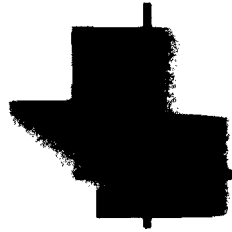
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# Ad-Hoc Committee Participants

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- Doug Carroll (Chair)
- Bob Schwartz
- Kurt Kosbar
- Frank Blum
- Eun Soo Park
- Don Myers
- Lance Haynes
- Jeff Smith
- Keith Nisbett
- SN Balakrishnan
- Bruce McMillin
- Ganesh Venayagamoorthy
- Klaus Woelk
- Richard DuBroff
- Beth Groenke
- Alex Dempsey
- Lauren Huchingson
- Adam Sibley
- Raj Singh
- Laura Stoll
- Barbara Hale
- Kurt Elmore
- Paul Hirtz
- Jeff Cawlfeld
- Jack Carney
- Kent Wray



# Ad-Hoc Committee

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- Formed October, 2006.
- Members of Academic Council were invited to join.
- Sought input on key issues.
- Student Academic Regulations
- Faculty Bylaws



# Student Academic Regulations

---

- Max credit load increased from 18 to 19 for all students. (With exceptions)
- Total credit hours for graduation controlled by the catalog. (120 minimum)
- Appeals, Unsatisfactory Work, Scholastic Deficiency, Probation, Discipline – Dean's responsibilities were moved to the Provost.

# Faculty Bylaws: General Description

---

- Part of Collected Rules and Regulations
- Eliminate Schools and Colleges
- To Modify:
  - 20 members of the General Faculty Propose Changes
  - Discussed at General Faculty Meeting
  - Mail Ballot
  - University Legal Review
  - Board of Curators





# Deans' Responsibilities

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- The RP&A committee directed the ad-hoc committee to move those responsibilities to the department level when possible, but some had to be moved to the Provost level.



# Faculty Senate vs Academic Council

---

- UMC has Faculty Council – Other Missouri Universities have Faculty or University Senates.
- Voting members elected by departments as they are now for Academic Council. All faculty, tenured/tenure track and non-tenure track are eligible to serve.
- Ex-Officio, non-voting members are Provost, VC Student Affairs, Registrar, Staff Council President, Student Council President and VP, and Council of Graduate Students President.

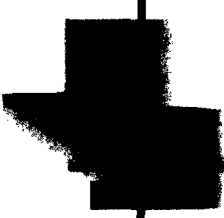


# General Faculty Membership/Voting

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- All tenured/tenure track and non-tenure track faculty.
- President, Chancellor, Provost, Registrar, Director of Library, and anyone else elected by 2/3 majority.
- Voting is restricted to the tenured/tenure track members.





# Courses/Curriculum Changes

---

- Department submits the course or curriculum change to the Campus Curriculum Committee via the Discipline Specific Curriculum Committee.  
(Current structure requires approval of the Dean)
- Provost is notified of the proposed changes by the Curriculum Committee.



# Special Programs

---

- This is new. It is proposed as a structure to accommodate interdisciplinary and/or multi-disciplinary programs.
  - Initiated by Provost
  - Approved by Faculty Senate
  - Board of Program Representatives
  - Director (Program Leader)
- Special Programs offer minors and certificates. Submit to Curriculum Committee.



## Membership of Standing Committees

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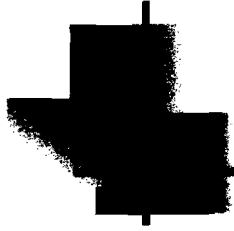
- Currently, membership of many committees is by school/college.
- Allow each department to nominate a member. The appropriate number would be selected from the slate of nominees by the Faculty Senate.



# Detail Changes

---

There are many proposed changes to the Faculty Bylaws document. To highlight the changes, additions to the text are red and underlined, ~~and deletions are blue and strikethrough~~. For each paragraph where a change was made, the original version of the paragraph is retained in black, and the proposed change follows immediately after the original with the red underline additions and ~~blue strikethrough deletions~~. The major changes are outlined above, and the detail changes are in the other attached document.



# Questions?

# Campus Reorganization

- Tenure
  - » Anticipate final vote today
- Faculty Bylaws
  - » Discuss today with AC
  - » RP&A works with UM legal over summer
  - » General Faculty discuss in August
  - » General Faculty vote by mail in September
  - » Board of Curators discuss in October

# Campus Reorganization

- Student Academic Regulations
  - » Ad Hoc Committee has completed draft, endorsed by other faculty standing committees
- Catalogs
  - » Draft of undergraduate catalog created, reviewed by RP&A, Ad Hoc committee, AC leadership, Registrar
  - » Attempting to forward to department chairs for comment
  - » Need final version by end of June

## **SB 389**

- Now law
- MOHELA Funding and Scholarships
- Tuition cap
- Transfer agreements
- Posting of instructors credentials and student ratings (if practical)
- Institutional performance measures
- Strengths position of CBHE and commissioner of higher education



# 1% Efficiency

- Board of Curators clearly believe that
  - » Faculty and staff are underpaid
  - » The university is inefficient
- At May meeting, the Board called for a 1% reallocation/efficiency pool.
- Additional 1% every year?
- Causing significant concern and activity with faculty on some other campuses

# Faculty Compensation

- Interim President Lamb set goal of bringing UM system faculty salaries up to mean of comparative institutions in 3 years
- Would require additional \$21 million over 3 years
- Could come from
  - » Increases in state appropriations, above already anticipated increases
  - » Tuition increases above CPI
  - » Efficiency pool
- Board leading toward relying on state appropriations and efficiency – and to hold tuition to CPI

## **Centers and Institute Review**

- Board of Curators appears concerned about the amount of GO funds going to centers and institutes
- Accountability of centers
- May see a “sunset clause” added to CRR on center funding
- May see requests for objective performance measures on centers

## **RP&A Leadership**

- D. Myers elected by RP&A to serve as interim chair

# Faculty & Staff Headcount

excluding student and graduate assistants  
Census Data as of 10-31 for 1995, 2005 & 2006  
Using Fall 2006 Administrative Structure

	1995*	2005	2006	Change, 1995 to 2006	
				HC	%
<b>FACULTY</b>					
Full Time Tenured & Tenure Track					
College of Arts & Sciences	107	103	102	-5	-5%
School of Engineering	115	117	111	-4	-3%
School of Extended Learning	5	1	1	-4	-80%
School of Management & Info Sys	5	14	17	12	240%
School of Mat, Energy, EarthR	49	43	46	-3	-6%
Athletics & Recreation	1			-1	-100%
	282	278	277	-5	-2%
Other Full & Part Time Faculty					
College of Arts & Sciences	45	68	74	29	64%
School of Engineering	42	55	57	15	36%
School of Extended Learning	12	15	12	0	0%
School of Management & Info Sys	5	9	7	2	40%
School of Mat, Energy, EarthR	20	30	21	1	5%
Athletics & Recreation	1	1	1	0	0%
Sponsored Programs	17	21	12	-5	-29%
	142	199	184	42	30%
<b>TOTAL FACULTY</b>	424 *	477	461	37	9%

\*8 librarians and 15 coaches reclassified from faculty to staff removed from other faculty count and included in staff count

## STAFF (full & part time)

### PROVOST

College of Arts & Sciences					
Environmental Trace Sub Res Ctr	21			-21	-100%
Regional Professional Development Ctr	1	15	14	13	1300%
Writing Center		2	1	1	
All Other Departments	35	38	37	2	6%
School of Engineering					
Student Design Competition Ctr		2	3	3	
All Other Departments	56	62	67	11	20%
School of Extended Learning	16	29	31	15	94%
School of Management & Info Sys					
MAMTEC	16	7	5	-11	-69%
All Other Departments	7	11	14	7	100%
School of Mat, Energy, EarthR	28	29	33	5	18%
Enrollment Management					
Admissions & Financial Aid	25	31	29	4	16%
Registrar's Office	16	16	15	-1	-6%
Student Diversity Programs	3	3	2	-1	-33%
All Other Departments		10	12	12	
Information Access & Tech Services					
Library(includes Librarians)	23	25	24	1	4%
Information Technology	35	65	63	28	80%
Provost					
Missouri Transportation Institute		5	2	2	
All Other Departments	6	7	6	0	0%
Sponsored Programs	23	41	46	23	100%
CHANCELLOR	12	7	7	-5	-42%
STUDENT AFFAIRS					
Athletics & Recreation	23	26	26	3	13%
Other Depts (excluding Bldg Services)	70	80	75	5	7%
ADMINISTRATIVE SERVICES					
All Departments(including Bldg Services)	261	261	261	0	0%
UNIVERSITY ADVANCEMENT	45	54	56	11	24%
UNDERGRAD & GRADUATE STUDIES		7	7	7	
TEMPORARY HIRES/WITH TEMP TITLES	31	57	43	12	39%

**TOTAL STAFF** 753 890 879 126 17%

**TOTAL FACULTY & STAFF** 1177 1367 1340 163 14%

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# Introduction

Academic Regulations are approved by the voting members of UMR Academic Council. They are written in eleven sections:

- I. Notifications**
- II. Registration**
- III. Schedules**
- IV. Changes in Schedules**
- V. Absences**
- VI. Withdrawals**
- VII. Examinations**
- VIII. Undergraduate Grades**
- IX. Unsatisfactory Work**
- X. Probation**
- XI. Discipline**

Regulation changes approved during the academic year are implemented at the beginning of the following fall term, unless otherwise specified by Academic Council. The Office of the Registrar publishes a *Reporting Schedule* in the *Schedule of Classes*, which provides the dates associated with appropriate deadlines for each semester. These publications, as well as this document, are available through the Office of the Registrar's home page:  
(<http://campus.umn.edu/registrar>).

Students should be aware of the following policies and procedures, which are all available through the Office of Student Affairs.

- **Discrimination Grievance Procedure for Students**
- **Rules of Procedures in Student Disciplinary Matters**
- **Judicial Procedures for Recognized Student Organizations**
- **Student Council Constitution**
- **Recognition of Student Organizations**

The *Quick Reference* publication provides an appropriate cross-reference to the location of the full description in the regulations. Students are responsible for knowing and meeting the complete regulations. However, the *Quick Reference* should provide answers to the more common questions about the regulations.

Regulation deadlines are met when approved documents are submitted to the Office of the Registrar within the stated time frames allowed by the regulations (*see the Reporting Schedule for appropriate dates each semester*). Students are responsible for scheduling conferences with their advisors with sufficient time allowed to meet all deadlines.

Changed Regulations for this publication include:

- Access Rights - transcripts \$5.00 per copy (Page 9, Section I.H.3)
- Significance of Undergraduate Grades - "Y" grade added (Page 19, Section VIII.A)
- Transfer Credit Policy - Amended Policy (Page 21, Section VIII.J.)

# Quick Reference

*The Quick Reference guide may provide answers to some of the more common questions about academic regulations. However, the user is directed to read the official regulations for full details. Advising is required at UMR and forms available in the Office of the Registrar direct as to the required signatures. Deadlines for the 8-week summer terms are one-half the time intervals of 16-week semesters referenced in the following descriptions.*

**Absences:** Administration of attendance policy lies with the individual instructor for each course. The individual instructor determines the number and nature of unexcused absences allowable in each course. Sanctions may be imposed for excessive absences up to and including dismissal from the course. If the instructor intends to attach a formal sanction (grade reduction or dismissal from the course) to inadequate attendance, he/she must include in the course syllabus the specific expectations and steps to be taken in such cases. Such steps will include an academic alert initiated in time to provide due warning before the absence which will give rise to the drop. (Page 17, Section V.A)

**Adding Course(s):** Advisor and instructor approval is required for adding courses. From the third through the sixth week the approval of the teaching department chair is also required. Lecture, recitation and laboratory courses cannot be added after the sixth week of a semester [3 weeks of an eight-week summer session]. (Page 16, Section IV.A.1)

**Audit Courses:** See Hearer Status.

**Deficiency-Scholastic:** A student is considered to be scholastically deficient if he/she has two or more semesters of scholastic probation. Also, he/she is immediately considered scholastically deficient at the end of any semester in which he/she has one or more "U" or "F" grade and no grade higher than a "D". The student's records will be referred to his/her academic department for a decision on continued enrollment at UMR, with the results forwarded to the student by the Office of the Registrar. Students can appeal denied enrollment by the department to the ~~academic dean~~ provost. Students that have preregistered and paid fees will be

allowed to keep their schedule, with appropriate modifications, if readmitted to the University. (Page 14, Section II.L; Page 22, Section IX.B.2)

**Directory Information:** Student directories are published each fall. Students that wish to restrict their name from appearing in such directories must notify the Office of the Registrar within the first two weeks of class. (Page 6, Section I.C.2)

**Dropping Course(s):** No courses can be dropped in the last 3 weeks of class or during finals week. No transcript record is made if the course is dropped within the first 6 weeks; a "WD" is posted on the transcript if dropped after 6 weeks. (Page 16, Section IV.A.2)

**Four-Hundred Level Courses:** Undergraduates are not permitted to register for 400-level courses unless their cumulative GPA is 3.500 or better or if the student is enrolled in the honors program. (Page 12, Section II.F)

**Grades:** Undergraduate grades are: A, B, C, D and F. Delay grades are permitted for undergraduate research numbered 390. "S" and "U" grades are permitted only for orientation courses, special problems, special reading, seminars, research, independent study courses (numbered 100, 200, 300, 350 and 390) and pass/fail courses (Page 18, Section VIII). "Y" grade represents no grade available. Students cannot repeat courses in which they have received a grade of "C" or better, unless the course is a "repeatable course" such as special problems, seminars, undergraduate research, etc. (Page 16, Section III.H)

**Grade Appeal:** Only students who allege they were subjected to capricious grading may use the grade appeal procedure. It is not to be



used to review the judgment of instructors in assessing the quality of students' work or for questioning the stated grading criteria by the instructor. (Page 20, Section VIII-I)

**Grade Point Averages:** Students earning a degree from UMR must have a GPA of at least 2.000 in courses taken at UMR and an overall cumulative GPA in all courses of 2.000. Students in engineering departments also have a GPA requirement in their major field of study of 2.000. All courses and grades from other institutions are shown on the UMR transcript and used in the calculation of the cumulative GPA. (Page 14, Section III.A; Page 16, Section III.G)

**Hearer Status:** Students are required to pay full fees for classes in which they register as a "hearer." None of the work will be graded and the student is not entitled to credit in the course. The student is required to attend class and may receive a "WD" grade if attendance is not to the satisfaction of the instructor of the class. The course credit will be included in all certifications of enrollment. Hearer status must be declared prior to the end of 6-weeks of class. (Page 12, Section II.E; Page 17, Section IV.B; Page 18, Section VII.D)

**Honor Roll:** Students completing at least 12 credit hours with all passing grades and a semester GPA of at least 3.200 are placed on the semester honor roll. (Page 19, Section VIII.E)

**Honors at Graduation:** Honors at graduation are printed in the commencement program and shown on the student's diploma. Honors based on the University of Missouri cumulative GPA are:

- **Summa Cum Laude** — 3.800 or better
  - **Magna Cum Laude** — 3.500 to 3.800
  - **Cum Laude** — 3.200 to 3.500.
- (Page 16, Section III.I)

**Incomplete Grades:** Incomplete grades are only to be used to assist the student in completing the course in the case of illnesses or unavoidable absence in the last 3 weeks of class and during finals week. Effective Winter/Spring Semester 2001, students must complete the work in which they are deficient within one calendar year from the close of the semester in which the "I" grade was recorded. Incomplete grades that are

not removed within one calendar year will be changed to an "F" grade by the Office of the Registrar. (Page 14, Section III.C; Page 14, Section III.D; Page 19, Sections VIII.A, VIII.B, VIII.C)

**Late Registration:** Students registering after the period designated for that purpose will be charged a late fee equal to one undergraduate credit hour. Registration is closed after two weeks of class. Exceptions denied by the Registrar can be appealed to the Admissions and Academic Standards Committee. (Page 12, Section II.D)

**Major Changes:** Undergraduate students requesting to change majors (degree programs) should fill out an application with the Office of the Registrar. Graduate students should make an application with the Admissions Office. Records will be forwarded to the receiving department for approval. (Page 13, Section II.J)

**Maximum Schedules:** The normal maximum schedule in the School of Engineering and School of Materials, Energy, and Earth Resources is 19 credit hours per semester. For all other students it is 18 credit hours. Additional hours can be taken according to the following schedule:

- 1 extra hour if cumulative GPA is 2.500 or above
- 2 extra hours if cumulative is 2.750 or above
- 3 extra hours if cumulative is 3.150 or above.

Additional hours require approval of the school/college-dean student's department chair. (Page 14, Section III.B)

**Pass/Fail Course(s):** Grading options cannot be changed after the end of 2 weeks of class. "S" and "U" grades are used for pass/fail courses and are not used in GPA calculations. Only one pass/fail course per semester is permitted. Degree requirements specified by discipline cannot be taken pass/fail. Graduate students cannot take courses pass/fail. See departmental policy for other possible restrictions. (Page 12, Section II.G)

**Probation-Scholastic:** A student is placed on scholastic probation if his/her current semester or cumulative GPA is less than 2.000. If the cumulative GPA is less than 2.000 and the current semester GPA is above

2.200, the student will not be placed on probation. A student on probation is restricted to 13 credit hours and may not hold office in any organization. (*Page 21, Section IX.B*)

**Repeated Course(s):** If a course is repeated, the last grade will be used in determining satisfaction of degree requirements. Students cannot repeat courses in which they previously received a grade of "C" or better (*Page 16; Section III.H*)

**Repeat Course GPA Adjustment:** Effective with UMR coursework repeated Fall of 2001 or later, when a grade of "D" or "F" is received in a UMR course, the grade may be replaced in the calculation of the GPA if the course is repeated at UMR. No more than 15 semester hours will be dropped from the calculation of the student's GPA and a repeated course may only be used to replace one previous grade in that same course in the GPA calculation. Grades of "I", "W", "HR" or "Pass/Fail" will not replace the previous grade. All grades earned will appear on the student's transcript. A statement of the repeat policy will be included on the transcript to explain the calculation of the GPA. After repeating a course, the student must submit a Repeat Course GPA Adjustment form to the Registrar's Office to have the GPA changed. The new grade will replace the old grade in all GPA calculations in which the previous grade was used, with the exception of the UM GPA used for calculation of graduation honors. If a student does not submit the Repeat Course GPA Adjustment, both grades will be used in GPA calculations. The scholastic standing of a student for a past semester will not be changed as a result of repeating a course. This policy applies to undergraduate students only and may not be applied once the student has graduated. (*Page 20, Section VIII.G*)

**Residency Requirements:** Undergraduate students are required to complete the last 60 credit hours in residency at UMR. Academic departments can approve waivers of up to 15 credit hours. Further exceptions must have the approval of both the department and the provost. All approvals must be on file in the Office of the Registrar prior to graduation. (*Page 14, Section III.E.1*)

**Transfer Credit Policy:** UMR accepts college-level (not remedial) course credits. All grades, quality points and credit hours are transferred and computed in the cumulative GPA. Grades not included in the transfer institution's GPA due to a repeat or forgiveness policy may be removed from the UMR cumulative GPA upon verification to the Registrar's Office. No more than 15 semester transfer hours will be dropped from the calculation of the student's cumulative GPA.

College-level (not remedial) course credit earned while enrolled in high school (dual-credit) shall follow the same policy as transfer credit.

~~The last 60 hours of an undergraduate program must normally be taken in residence at UMR. A student may, with departmental approval, take up to 15 hours of this 60 hours off campus. If the student wishes to exceed 15 hours (of the last 60 hours) taken off campus, the student must obtain approval of the dean of the student's school or college upon recommendation of the student's department chair.~~

**Withdrawals:** If a student leaves school without officially withdrawing, he/she will still be considered enrolled in all courses in which he/she is registered. Withdrawals cannot be made in the last 3 weeks of the semester or during final exam week. The withdrawal process begins in the Office of the Registrar. (*Page 17, Section VI*)

# Student Academic Regulations

## I. Notifications

1. **Students are expected to** read and are held responsible for the notices posted on official school bulletin boards.

Students are expected to keep the Office of the Registrar informed of any changes in his/her local mailing address, local telephone number, home address, marital status, and curriculum in which he/she is enrolled. Notices mailed to the address on file in the Office of the Registrar will be considered delivered, and the student will be held responsible for knowledge of such notices.

If the student is contacted by one of the school offices, he/she is expected to respond promptly. Failure to do so will render the student liable to discipline.

### 2. University of Missouri – Rolla Policy on Student Records:

Confidentiality Policy The Family Educational Rights and Privacy Act of 1974

#### A. General.

1. This policy is based on the University of Missouri Policy on Student Records adopted by the Board of Curators on February 28, 1975, as amended on March 18, 1977.
2. This UMR policy supersedes the UMR Policy on Student Records, which was effective July 1, 1975.

- B. **Purpose.** The purpose of this regulation is to set forth the guidelines governing the protection of the privacy of student records and to implement The Family Educational Rights and Privacy Act of 1974. (Buckley Amendment; Public Law 93-380, as amended.)

## C. Definitions.

1. Attendance at UMR includes, but is not limited to:
  - a. Attendance in person
  - b. Attendance by correspondence
  - c. The period during which a person is working under a work-study program.
2. Directory Information [Public Information] A student's directory information includes:
  - a. Name
  - b. Email address
  - c. Address and telephone listing (both local and permanent)
  - d. Date and place of birth
  - e. Major field of study
  - f. Participation in officially recognized activities and sports
  - g. Weight and height of members of athletic teams
  - h. Dates of attendance
  - i. Degrees and awards received
  - j. The most recent previous educational agency or institution attended
  - k. Student level
  - l. Full or part-time status

All students must inform the Office of the Registrar before the end of the two-week period following the first day of classes that any or all of the information should not be released without the student's prior consent. The information listed above will become directory information as of the first day of classes following a one-week period during an eight-week summer session.

3. Disclosure is defined as permitting access, release, transfer or other communication of education records of the student or the personally identifiable information contained therein, orally, in writing, by electronic means or by any other means to any party.
4. Education Records are those records, files, documents and other materials that contain information directly related to a

student and are maintained by UMR or by a party acting for UMR. These records are protected under The Family Educational Rights and Privacy Act of 1974. Education Records include:

- Financial aid records
- Cumulative advisement file
- Health records
- Disciplinary records
- Personnel folder
- Cumulative scholastic record.

Education Records do not include:

- a. Records on instructional, supervisory and administrative personnel and educational personnel ancillary thereto which are in the sole possession of the maker thereof and which are not accessible or revealed to any other person except a substitute. For the purpose of this definition a "substitute" means an individual who performs on a temporary basis the duties of the individual who made the records, and does not refer to an individual who permanently succeeds the maker of the record in his or her position.
- b. The records and documents of the UMR Police Department that are maintained solely for law enforcement purposes and are not available to persons other than law enforcement officials of the same jurisdiction, provided that the educational records maintained by UMR are not disclosed to the UMR police department.
- c. In the case of persons who are employed by UMR but who are not in attendance at UMR, records made and maintained in the normal course of business which relate exclusively to such person and that person's capacity as an employee where the records are not available for any other purpose.
- d. All records on any UMR student which are created and maintained by a physician, psychiatrist, psychologist or other recognized professional or paraprofessional acting in his or her professional or paraprofessional capacity, or assisting in that capacity, and which are created, maintained or used only in connection with the provision of treatment to the student,

and are not available to anyone other than persons providing such treatment, provided that such records can be personally reviewed by a physician or other appropriate professional of the student's choice.

- e. Records of UMR that contain only information relating to a person after the person is no longer a student at the University. An example would be information collected by UMR pertaining to the accomplishments of its alumni.
5. Eligible Student is an individual who is or has been in attendance at the University of Missouri - Rolla (UMR) as a student.
  6. Parent refers to natural parents, adoptive parents, legal guardians or an individual acting as a parent in the absence of a parent or guardian. Both parents shall have equal rights unless revoked by court order or law.
  7. Party is an individual, agency or organization.
  8. Personally identifiable is data or information that includes the following:
    - Name of a student
    - Name of student's family
    - Student's parent or other family member
    - Address of the student
    - A personal identifier such as the student's social security number or student number
    - A list of personal characteristics which would make the identify easily traceable
    - Other information which would make it possible to identify the student with reasonable certainty.
  9. Record is information or data recorded in any medium, including, but not limited to, handwriting, print, tapes, film, microfilm and microfiche.
  10. Student refers to any person who is attending or has attended UMR where UMR maintains education records or personally identifiable information on such person. It does not refer to a person who has not been in attendance at UMR.

- D. **Notification by UMR.** UMR shall inform its eligible students annually, by including in the undergraduate and graduate catalogs, with reference to it on the Office of the Registrar Website, with Class Offering Information, the following information:
1. The types of education records and information currently maintained by UMR.
  2. The title and office address of the official currently responsible for the maintenance of each type of record.
    - a. The persons who have access to those education records.
    - b. The purpose for which those persons have access to the education records.
  3. The current UMR policy for reviewing and expunging education records.
  4. The current UMR procedure established for providing student access to education records.
  5. The current UMR procedure for requesting a hearing to challenge the content of education records.
  6. The cost which will be charged to the student for reproducing copies of the education record.
  7. The categories of information which UMR has designated as directory information/public information.
- E. **Waive Right to Access.** UMR shall not require eligible students to waive their rights to access of their records. However, a student or person applying for admission may waive his/her right to access confidential statements on admission, employment or honorary recognition by complying with the procedures set forth in Section G except that such waiver shall apply to recommendations only if the student is, upon request, notified of the names of all persons making confidential recommendations and such recommendations are used solely for the purpose for which they are specifically intended. A waiver shall not be valid unless in writing and signed by the student. Waivers will not be required as a condition for admission, receipt of financial aid or receipt of any other services or benefits offered by UMR. A waiver under this section may be revoked with respect to any actions occurring after the revocation. Any revocation under this section must be in writing.
- F. **Access to Education Records.** UMR shall provide students who are or have been in attendance at UMR access to education records except as provided in Section G. UMR shall comply with a request within a reasonable period of time, but in no case more than 45 days after the request has been made.
- G. **Limitations on Access.** The University will not make available to students the following materials:
1. Financial records of the parents of students or any information contained therein.
  2. Confidential letters and statements of recommendation which were placed in education records prior to January 1, 1975, if such letters or statements are used only for the purpose for which they were specifically intended and so long as the letters and statements were solicited with a written assurance of confidentiality, or sent and retained with a documented understanding of confidentiality.
  3. Confidential letters of recommendation and statements of recommendation which were placed in the student's education record after January 1, 1975, respecting admission to UMR, application for employment and receipt of an honor or honorary recognition, provided the student has signed a waiver of the student's rights of access as provided in Section E.
- H. **Access Rights.** The right to access as specified in Section F shall include:
1. The right to be provided a list of the types of education records that are maintained by the institution and are directly related to students.
  2. The right to inspect and review the content of those records.
  3. The right to obtain copies of those records which may be at the expense of the

student but not to exceed the actual cost of reproduction. Students desiring reproduction of copies of educational records will be charged at the rate of \$.10 per page. Official copies of transcripts are \$5.00 per copy.

4. The right to a response to reasonable requests for explanation and interpretations of the education records.
5. The right to an opportunity for a hearing to challenge the content of those records.
6. If any material or document in the education record of a student includes information on more than one student, the right to inspect and review only such part of such material or document as relates to such student or to be informed of the specific information contained in such part of such material.

I. **Destruction of Records.** UMR may destroy any records if not otherwise precluded by law, provided that if a student has requested access to such records prior to the destruction of such record, the student shall be provided a copy of such record. Explanations placed in the education record under Section J shall be maintained as part of the student's educational record for as long as the educational record to which it pertains is maintained.

J. **Hearings.**

1. Students who are or have been in attendance at UMR may have an opportunity for a hearing to challenge the content of such student's education records in order to insure that the records are not inaccurate, misleading or otherwise in violation of the privacy or other rights of such student, and to provide an opportunity for the correction or deletion of any such inaccurate, misleading or otherwise inappropriate data contained therein.
2. If, as a result of the hearing, UMR decides that the information is not inaccurate, misleading or otherwise in violation of the privacy or other rights of the student, they shall inform the student of his/her right to place in his/her education record a statement commenting upon the

information in the education record and/or setting forth any reasons for disagreeing with the decision of UMR. If the education records of the student or the contested portion thereof are disclosed by UMR, the explanation shall also be disclosed by UMR to that party.

K. **Informal Proceedings.** The UMR official charged with custody of the records will attempt to settle informally any disputes with students regarding the content of UMR's education records through informal meetings and discussions with the student.

L. **Formal Proceedings.** Upon the request of the UMR official charged with custody of the records or the student, the hearing required by Section J shall be conducted.

1. The request for a hearing shall be submitted in writing to the Chancellor of UMR who will appoint a hearing officer or a hearing committee to conduct the hearing.
2. The hearing shall be conducted and decided within a reasonable period of time following the request for the hearing. The parties shall be entitled to 10 days prior written notice of the time and place of the hearing.
3. The hearing shall be conducted and the decision rendered by an appointed hearing official or officials who do not have a direct interest in the outcome of the hearing.
4. The student shall be afforded a full and fair opportunity to present evidence relevant to the hearing and may be assisted or represented by individuals of his/her choice at his/her own expense, including an attorney.
5. The decision of UMR shall be based solely upon the evidence presented at the hearing and shall include a summary of the evidence and the reasons for the decision.
6. The decision shall be rendered in writing within a reasonable period of time after the conclusion of the hearing.

7. Either party may appeal the decision of the hearing official or officials to the Chancellor of UMR. Appeal from the Chancellor's decision is to the President. Appeal from the President is to the Board of Curators.

M. **Consent.** UMR shall not permit access to or the release of education records with personally identifiable information contained therein (other than directory information/public information) without the written consent of the student to any party other than the following:

1. Other UMR officials, including teachers within UMR, who have been determined by UMR to have legitimate educational interests.
2. Officials of other schools or school systems in which the student seeks or intends to enroll, upon condition that the student is notified of the transfer, receives a copy of the record if requested, and has an opportunity for a hearing to challenge the content of the record.
3. The Comptroller General of the United States, the Secretary of Education or the Commissioner, provided that access was necessary in connection with the audit and evaluation of federally supported education programs or in connection with the enforcement of or compliance with the federal legal requirements which relate to these programs. Except when the consent of the parent or student has been obtained under this section or when the collection of personally identifiable information is specifically authorized by federal law, any data collected by officials listed herein shall be protected in a manner which will not permit personal identification of students and their parents by other than those officials. Personally identifiable data shall be destroyed when no longer needed for such audit, evaluation or enforcement of or compliance with the federal legal requirements.
4. In connection with a student's application for or receipt of financial aid, provided that only that personally identifiable information from the education records of the student may be disclosed as may be

necessary to determine the eligibility of the student for financial aid, to determine the amount of financial aid, to determine the conditions which will be imposed regarding the financial aid or to enforce the terms or the conditions of the financial aid.

5. State and local officials or authorities to whom such information is specifically required to be reported or disclosed pursuant to a State statute adopted prior to November 19, 1974.
6. Organizations conducting studies for or on behalf of educational agencies or institutions for the purpose of developing, validating or administering predictive tests, administering student aid programs and improving instruction. If such studies are conducted in such a manner as will not permit the personal identification of students and their parents by persons other than representatives of such organizations, and such information will be destroyed when no longer needed for the purpose for which the study is conducted.
7. Accrediting organizations in order to carry out their accrediting functions.
8. A dependent student's parent as defined in Section 152 of the Internal Revenue Code of 1954.
9. In compliance with the judicial order, or pursuant to any lawfully issued subpoena, upon condition that the student is notified of all such orders or subpoenas in advance of the compliance therewith by UMR.
10. The disclosure to an alleged victim of any crime of violence, as the term is defined in Section 16 of title 18, United States Code, of the results of any disciplinary proceeding conducted by an institution of postsecondary education against the alleged perpetrator of that crime with respect to that crime.

N. **Content of Consent.** Where the consent of an eligible student is required for the release of education records, it shall be in writing, signed and dated by the student and shall include:

1. A specification of the records to be released
2. The reason of such release
3. The names of the parties to whom such records will be released. A copy of the records released shall be provided to the student on the student's request.

**O. Release of Information for Health or Safety Emergencies.** UMR may release information from the education records to appropriate persons in connection with an emergency if the knowledge of such information is necessary to protect the health or safety of a student or other persons. The factors that will be taken into account in determining whether the records may be released under this section include the following:

1. The seriousness of the threat to the health or safety of the student or other persons
2. The need for such records to meet the emergency
3. Whether the persons to whom such records are released are in a position to deal with the emergency
4. The extent to which time is of the essence in dealing with the emergency

**P. Records of Access.** UMR shall maintain a record kept with the education records of each student which will indicate all parties, except UMR officials, who have requested or obtained access to a student's education records maintained by UMR. Such record will also indicate specifically the legitimate interest that each party has in obtaining the information. This record of access shall be available only to the student, the school official and his/her assistant who are responsible for the custody of the records, to UMR officials who have a legitimate educational interest and to those charged with responsibility of auditing the operation of the system.

**Q. Transfer of Information by Third Parties.** UMR should not release personal information on a student except on condition that the party to whom such information is being transferred will not permit any other party to

have access to such information without the written consent of the student. UMR shall include with any information released to a third party a written statement that informs such party of the requirement and that it may not be released without the written consent of the student.

**R. Conditions for Disclosure of Directory Information.**

1. UMR may disclose personally identifiable information from the education records of a student who is in attendance at UMR if that information has been designated as directory information. UMR shall give public notice of the categories of personally identifiable information with respect to that student as directory information, and the period of time within which the student must inform UMR in writing that such personally identifiable information is not to be designated as directory information with respect to that student.
2. UMR may disclose directory information from the education records of an individual who is no longer in attendance at UMR without following the procedures stated under Section R.1 of this section.

## II. Registration

**A. Preregistration.** The students are requested to preregister for the winter, fall and summer terms during the designated periods. Complete rules and dates for preregistration are printed in the schedule of classes for that semester. UMR utilizes a Touch Tone/Voice Response telephone registration system and Joe'SS for preregistration. Priority access to the telephone system and Joe'SS is based on the level of the student and the total number of hours completed at that level in the following order:

- PhD
- Masters
- Senior
- Junior
- Sophomore
- Freshman

**B. Provisional Registration.** The Director of Admissions may allow a student to register provisionally while awaiting receipt of credits



from another school. Such registration shall be for a limited time and shall be canceled if credits from other schools do not substantiate statements made the student.

C. **Admission to Classes.** A student is not considered enrolled until his/her fees for the semester have been paid. No student will be admitted to any class until the instructor in charge of the class has received notification that registration is complete from the Registrar.

D. **Late Registration.** If a student registers later than the day designated for that purpose, he/she will be charged a late registration fee equal to one credit hour of undergraduate educational fees. Absences from classes because of late registration may be charged against the student by the faculty. Registration is closed after two weeks of the semester have elapsed. Exceptions may be made by the Registrar under unusual circumstances. The student has the right to appeal the Registrar's decision by written petition to the Admissions and Academic Standards Committee. Late registrants must follow the procedures for adding course work as specified in Section IV-1, Procedure for Adding or Dropping a Course.

A student presenting a check to the University in payment of student fees which is returned unpaid and remains unpaid *after the close of the regular registration period* shall be considered a late registrant and shall pay the late Registration fee.

E. **Registration as a Hearer.** If a student wishes to attend any class as a hearer, he/she must obtain the permission of the instructor in charge of the course, permission from his/her advisor and must register as a hearer through the Office of the Registrar. The only requirement is that the student must attend class. Failure to attend class may result in a "WD" grade recorded on the student's transcript. A hearer student is not entitled to credit for the course and none of the work will be graded. The regular credit for which the course is taught is used in determining the appropriate fees and in determining whether the student has met or exceeded his/her maximum semester hour load. If a student registers a course for credit and later wishes to change it to hearer status, he/she must submit a completed grading option change

form to the Office of the Registrar prior to the end of six weeks of classes for a regular semester (three weeks for an eight-week summer session). See Section IV-2, *Effect on Grade of Dropping Courses*.

F. **Registration in 400-Level Courses.** In general, undergraduates are *not permitted to enroll for 400-level courses*. However, an undergraduate may earn credit toward the bachelor's degree for courses normally taken by first-year graduate students (400-level courses) if the student is enrolled in an honors program or has a cumulative grade point average of 3.500 or better and has the necessary prerequisites for the course to be taken.

G. **Registration Under Pass/Fail Grading Option.** The following rules concerning the Pass/Fail grading option are:

1. No student shall apply the Pass/Fail Grading option to more than one course in any one semester nor to more than 20 percent of the credit hours toward graduation.
2. The term Pass/Fail Elective refers to any course to be used toward graduation which a student's department specified by an hourly requirement only and is not specified to come from a specific discipline. For example, requirements such as "4 hours of a modern language," or "3 hours of social sciences" would both be Pass/Fail electives. Requirements such as "3 hours of mathematics" or "6 hours of English" would not be Pass/Fail electives. Any block of Pass/Fail electives falling under the above definition may be declared by the department granting the degree unacceptable for credit toward graduation. However, any student who has used the Pass/Fail option on such a course prior to his/her department's declaration may not be denied use of that course toward graduation unless he/she took it when enrolled in a different department.
3. All Pass/Fail electives may be taken pass/fail when not in conflict with Sections 1 and 2 above.
4. Any course may be declared as acceptable for credit toward graduation when taken

Pass/Fail with the consent of all departments in which a student may claim to have depth (i.e. minor, option program, emphasis, etc.).

5. Any course not used for credit toward graduation may be taken Pass/Fail.
6. No student shall be required to take any course Pass/Fail.
7. At least five school days before preregistration for a semester begins, each department shall post its Pass/Fail policies and provide each advisor with an ample supply of copies of these regulations to be given to his/her advisee.
8. After the policy is posted, any changes in the department's policy shall apply only to those semesters that follow the semester for which those regulations were posted.
9. A student may register a course as Pass/Fail by first registering the course for credit through Joe'SS/telephone registration. Then the student must submit the appropriate Pass/Fail approval form from the *Schedule of Classes* to the Office of the Registrar prior to the end of two weeks of classes.
10. When a course is taken pass/fail, a grade of "A," "B," "C" or "D" shall be recorded as an "S" by the instructor. An "F" grade shall be recorded as a "U" by the instructor.
11. After the end of the second week of a semester (one week during an eight-week summer session) no student shall change the grading option of any course.
12. Credit for courses taken under the Pass/Fail option will not be used in calculating grade point averages.

H. **Registration Schedule is Official.** The schedule made out and approved on registration day is the student's official schedule for the semester except when changed as provided herein. Grades will be recorded only for subjects appearing on this schedule or passed by special examination. The student will be held responsible for all courses appearing on his/her schedule and

grades will be reported for all such courses except those attended as a hearer.

I. **Changes in Official Schedule.** Any change in the official schedule must be made through the Office of the Registrar (*see Section IV, Changes in Schedule*).

J. **Change of Major Department.**

1. If a student wishes to change majors, he/she must make a written application to the receiving department. The receiving department may place reasonable academic conditions upon the application and also may require that the student work closely with a departmental advisor or take advantage of the academic skills program at the Counseling and Career Development Center. Any such conditions negotiated by the department and the student must be explicitly noted on the student's application for a change in major and will be regarded as binding.
2. Transferring students, whether from within or outside the University system, shall have their transcripts evaluated by the receiving department. All courses with their grades will be shown on the transcript. The receiving department will determine which courses will satisfy its degree requirements.

K. **The Advisors.**

1. The chairs of the various degree-granting departments (or their appointees) serve as advisors to all students in their respective departments. Freshmen who have not selected a department will be referred by the Office of the Registrar to the proper department for advisement.
2. The student's schedule must be approved by his/her advisor before it becomes official. After which it may be changed only as provided in this document.
3. The student is required to consult with his/her advisor and complete an Advising Agreement form prior to gaining access to the telephone registration system or Joe'SS. An Advising Hold must be removed by the advisor prior to accessing the telephone registration system and Joe'SS for registration. The advisor will

guide the student in scheduling back work and required work in preference to electives and will offer advice in regard to irregularities such as conflicts. The advisor also will guide the student in preparing petitions for permission to schedule courses when he/she has not had the prerequisites and in preparing petitions when he/she desires to schedule more than his/her permissible schedule.

- L. **Cancellation of Registration for Students who are Scholastically Deficient.** If a student is denied readmission as a result of scholastic deficiency, his/her registration will be canceled prior to the first day of class, and fees paid for canceled courses will be refunded in full.

### III. Schedules

- A. **Definition of Credit Hour and Grade Point.** A credit hour is the credit obtained for satisfactorily passing a course of approximately 16 classroom hours. Three laboratory hours are considered the equivalent of one classroom hour. Grade points for each credit hour are assigned as follows:
- A - Four (4)
  - B - Three (3)
  - C - Two (2)
  - D - One (1)
  - F - Zero (0)

No grade points are assigned to credit earned for courses taken under the Pass/Fail option. Credit hours scheduled under this option are not used in calculating grade point averages.

- B. **Permissible Schedules.** The normal undergraduate schedule consists of not more than 19 credit hours. ~~in the School of Engineering and the School of Materials, Energy, and Earth Resources, and not more than 18 credit hours in the College of Arts and Sciences and in the School of Management and Information Systems.~~ If the student has a grade point average of 2.500 or higher (see *Section VIII-7, Determining Scholastic Standing*) he/she may, with the permission of his/her advisor, take extra hours according to the following schedule:

- Cumulative GPA **2.500 or above** - **1 extra hour**
- Cumulative GPA **2.750 or above** - **2 extra hours**
- Cumulative GPA **3.150 or above** - **3 extra hours**

For additional hours or for any schedule exceeding 23 hours, including military courses, the student must petition his/her department chair ~~the dean of his/her college.~~ ~~The normal schedule specified above may be increased by the credit hours prescribed for Military Science/Aerospace Studies for ROTC enrollees. The normal schedule for a first semester freshman could be 15-18 credit hours. A total of 19 credit hours may be scheduled by ROTC enrollees.~~

- C. **Prerequisites.** Students will not be admitted to any course (except as a "hearer") unless he/she has fulfilled all of the prerequisites or co-requisites stated in the catalog, or have obtained permission to waive the prerequisites or co-requisites for the course. Petition forms are available from the Office of the Registrar. A course in which the student earned an "I" grade cannot be used for the purpose of satisfying prerequisites.
- D. **Back Work to be Scheduled First.** In making out a schedule of studies back work must be scheduled first. Then required work, advanced work and electives can be scheduled in the order named. Incompletes cannot be scheduled, but the student must arrange with the instructor concerned to do whatever work is necessary to remove the incomplete (see *Section VIII-2, Time Limit for Removing Incompletes*).
- E. **Credit Required for Degree.**
1. **Residency Requirement (Last 60 Hours).** An undergraduate student may be granted an earned degree only if he/she completes the last 60 hours toward the degree in residence at UMR. A student may, with departmental approval, take up to 15 of this 60 hours off campus. If the student wishes to exceed 15 hours (of the last 60) taken off campus, the student must obtain approval from the provost ~~dean of the student's school/college~~ upon recommendation of the student's department chair.

2. **Total Credit Hours.** In order to receive a bachelor's degree, the student must obtain credit in all of the required subjects listed in one of the curricula and sufficient additional credit in approved electives. The total credits required for the Bachelor's degree varies depending on the degree program, with no program consisting of less than 120 credits. The total credit must be at least 128 hours for a Bachelor of Science degree in the School of Engineering and in the School of Materials, Energy and Earth Resources. In the College of Arts and Sciences, at least 124 total credit hours are required for a Bachelor of Science degree (unless explicitly allowed by degree curricula, credit received for algebra, trigonometry, and in some curricula, Military Science/Aerospace Studies cannot be used in fulfilling degree requirements), and at least 120 total credit hours for a Bachelor of Arts degree (not including Basic Military/Aerospace Studies.) In the School of Management and Information Systems at least 120 total credit hours are required for a Bachelor of Science degree.

### 3. Dual Degrees.

a. **Bachelor of Science.** Combination curricula leading to two baccalaureate degrees can be arranged in any two fields. The amount of additional credit required for the second baccalaureate degree will be based on the student's educational background and determined for each case by the academic department which offers the curriculum leading to the second degree. The chair of the department will submit a list of the specific course and credit hour requirements along with the student's transcript to the provost dean of the school/college for approval. This list will then be forwarded to the Registrar and will constitute the official requirement for the second degree. A student entering UMR with a baccalaureate degree must take a minimum of 30 hours to receive another baccalaureate degree. Students are directed to the *UMR Catalog* for course requirements and regulations concerning the catalog to be used for degree programs.

b. **Bachelor of Arts.** Since the BA degree is unspecified as to major, there will be no dual Bachelor of Arts degree offerings.

c. **Awarding of Degrees.** When requirements for a degree in two departments have been completed without either degree being awarded, both degrees may be awarded at the same commencement.

F. **Registration for Credit in Excess of Graduation Requirements.** Undergraduate students may take courses in excess of undergraduate requirements even if they are not dually enrolled on the recommendation of the student's advisor. Such courses shall be so designated on the student's official schedule and transcript. The student may later request consideration from a Graduate School for use of these courses toward a degree. *However, the student is advised that credit in excess of undergraduate requirements normally may not be applied toward a graduate degree at UMR or other campuses of the University of Missouri System except under dual enrollment.* It is recommended that the student consult the catalog of the graduate school of his/her choice relative to the requirements of such transfers. One such requirement may relate to limitation on maximum allowable credit hours taken during the semester concerned.

1. The student must obtain the recommendation of his/her department at the time of preregistration or registration to declare a course in excess of undergraduate requirements. Departmental approval should be noted in the remarks column on the student's schedule card.

2. Courses that are approved in excess of undergraduate requirements will be so footnoted on the student's transcript at the end of the semester. Courses will be included with all other undergraduate courses taken that semester in calculating both the semester and cumulative grade point average.

3. No attempt will be made by the Registrar to notify the instructor of courses that

have been designated in excess of undergraduate requirements.

**G. Grade Points Required for Degree.** In order to receive the bachelor's degree the student must have a cumulative grade point average of at least 2.000. All students transferring to UMR must achieve a cumulative GPA of at least 2.000 in courses taken at UMR for graduation. In order to graduate, ~~in the School of Engineering and School of Materials, Energy, and Earth Resources, students entering UMR after the fall of 1979~~ students must achieve a cumulative grade point average of 2.000 in courses taken in their major department. In departments that offer more than one major, the 2.000 must be in the major discipline within that department.

**H. Repeated Course Grades.** A student may not enroll in a course for credit if he or she has completed the course at UMR in a previous semester and earned a grade of "C" or higher. Students are allowed to enroll in such courses as a "hearer." This rule does not apply to courses that are officially designated as "repeatable courses." The Office of the Registrar maintains a list of which courses are repeatable. If a course is repeated, the last grade will be used in determining the satisfaction of degree requirements.

**I. Public Recognition of High Scholarship.** On the commencement program will be listed the following:

1. Names of students graduating **Summa Cum Laude**, having a UM cumulative GPA of **3.800** or better.
2. Names of students graduating **Magna Cum Laude**, having a UM cumulative GPA of **3.500** to 3.800.
3. Names of students graduating **Cum Laude**, having a UM cumulative GPA of **3.200** to 3.500.
4. Membership lists of Honorary Societies Phi Kappa Phi, Tau Beta Pi, Sigma Gamma Epsilon and Sigma Xi.

Only course work earned at UM will be used in the calculations to qualify for graduation honors.

**J. Statement of Credits.** A student in good financial standing may obtain from the Registrar at any time a certificate stating the studies pursued and the grades obtained.

## IV. Changes in Schedule

**A. Procedure for Dropping or Adding a Course.** No change of any sort in an approved schedule will be considered official unless made through the Office of the Registrar and recorded in that office. If a student wishes to make changes in his/her schedule, they must consult the Office of the Registrar for the proper forms and procedures.

1. If a student wishes to add a course to his/her schedule during the first two weeks (first week of an eight-week summer session) of a semester, he/she must receive the permission of his/her advisor and the instructor of the course. From the third through sixth week (second and third week of an eight-week summer session), the student must receive the permission of his/her advisor, the instructor of the course and the chair of the department teaching the course. Students may not add lecture, recitation or laboratory courses after the sixth week (third week of an eight-week summer session) of the semester.
2. If a student wishes to drop a course from his/her schedule, he/she must consult with his/her academic advisor and the instructor in charge of the course. Detailed instructions are available on the ADD/DROP form provided by the Office of the Registrar. A copy of this form is returned to the department by the Office of the Registrar after the drop slip is processed. Permission to drop a course will not be given until all laboratory or other equipment has been checked in to appropriate persons, nor until lockers and other storage space have been vacated. A student may be dropped from a course by the instructor for excessive absences. A student may also be dropped by the instructor if he/she does not have the prerequisites for the course and did not obtain permission from both the chair of the department concerned and his/her

academic advisor to waive the prerequisites. (Prerequisite Waiver forms are available in the Office of the Registrar). In all such cases the instructor shall notify the Office of the Registrar in writing. The Registrar shall change the student's official schedule accordingly and will then notify the student.

**B. Effect on Grade of Dropping Courses.**

Courses dropped during the first six weeks of a semester (three weeks of an eight-week summer session) will not be recorded on the transcript. If a student officially drops a course after six weeks of a semester but prior to the last three weeks of classes (fifteen class days), a WD (Withdrawal) will be recorded on his/her permanent record by the Registrar.

A student may not drop a course during the last three weeks of class (fifteen class days) or during final examination week.

A change from credit to "hearer" status in any course cannot be made after the end of six weeks of a semester (three weeks during week of an eight-week summer session).

## **V. Absences**

- A. Administration of attendance policy lies with the individual instructor for each course. The individual instructor determines the number and nature of unexcused absences allowable in each course. Sanctions may be imposed for excessive absences up to and including dismissal from the course. If the instructor intends to attach a formal sanction (grade reduction or dismissal from the course) to inadequate attendance, he/she must include in the course syllabus the specific expectations and steps to be taken in such cases. Such steps will include an academic alert initiated in time to provide due warning before the absence which will give rise to the drop.
- B. If the student accrues sufficient absences to warrant dismissal in accordance with the course syllabus, he/she will be dropped from that class by the Office of the Registrar at the written request of the instructor. No grade will be recorded if this action takes place prior to the end of six weeks (three weeks during an

eight-week summer session). During the period after six (6) weeks of a semester and prior to three (3) weeks before the end of classes, a withdrawal will be recorded on the transcript if the instructor drops the student from the course. The instructor may not effect a withdrawal from the course during the last three (3) weeks of classes or during Final Examination Week.

- C. Any work missed for any reason must be made up to the satisfaction of the instructor concerned.
- D. Each department and school may adopt absence regulations in addition to those of the individual instructor. These regulations should be either posted on department bulletin boards or incorporated as part of each course syllabus.

## **VI. Withdrawals**

- A. **Permission Required.** If a student desires to withdraw from school, he/she must process a specific form available, from the Office of the Registrar, for this purpose. Withdrawals from school must be completed three weeks (fifteen class days) prior to the last day of class.

If a student leaves school without officially withdrawing, he/she shall still be considered enrolled in the courses for which he/she is registered.

- B. **Before Two Weeks Past Mid-Semester.** If a student withdraws from school, with permission, prior to two weeks past mid-semester (one week during an eight-week summer session), he/she shall receive no grade in any subject scheduled for that semester.
- C. **After Two Weeks Past Mid-Semester.** If a student withdraws from school, with permission, after two weeks past mid-semester, he/she may receive credit for courses that have actually been completed at the time of withdrawal. In other courses, no grades shall be recorded.
- D. **Academic Status.** If a student withdraws, his/her academic status will be the same as his/her status at the beginning of the

semester in which he/she withdrew. However, if he/she is on academic deficiency, he/she must reapply for admission.

## VII. Examinations

A. **Entrance Examinations and Examinations for Advanced Standing.** Entrance examinations and examinations for advanced standing shall be given at such times and under such circumstances as the chair of the department in which the subject is taught shall prescribe, except that placement examinations shall not be accepted in lieu of entrance examinations. Special examinations for credit in a foreign language will not be permitted when the foreign language is the student's native tongue.

B. **Credit by Examination.** If a student is a registered student at UMR and has learned enough about a subject to pass an examination on it — without taking the course — he/she may be able to get college credit for this knowledge. There are five different programs included in UMR's credit by examination policy. They are:

- Advanced Placement Programs
- College-Level Examination Program
- Missouri Colleges Testing Program
- Military experiences
- Departmental examinations

Further information about these programs may be obtained at the Admissions Office or the Counseling and Career Development Center.

C. **Rescheduling of Instruction, Tests and Examinations.** Scheduling of classes relative to time and space should be carefully considered as to need prior to the specific semester and only under the most serious conditions should changes be made during the semester. *Care must be taken that such scheduling does not infringe unduly on the rights of the student* and all rescheduling must have the written approval of the department chairperson and be coordinated through the Office of the Registrar. Such changes must be initiated by students or instructors.

D. **Examinations in Courses Attended as Hearer.** If a student is attending or has attended a course as a "hearer," he/she is not

entitled to an examination for credit in that course (see *Section II-5, Registration as a Hearer*).

E. **Examinations of two hours' duration** at the end of a semester may be given at the option of the instructor in all lecture and laboratory courses. No special final examinations shall be given except on written permission from the ~~provost dean of the school/college in which the final is given~~. If a student has a conflict between two final examinations, the subject regularly scheduled for the year in which he/she is classified shall take precedence and the department teaching the other subject shall arrange a special examination for the student upon verification of the Registrar. If a student has three final examinations scheduled on the same day he/she may request that the examination falling in the second period on that day be moved to a different date. (If no examination is scheduled in the second period, the examination in the fourth period will be moved.) If a student has four examinations scheduled on the same day he/she may request that the second and/or fourth examination be moved to another date. All of the above requests are to be made in the Office of the Registrar at least one week before the beginning of the final examination week.

## VIII. Undergraduate Grades

(Graduate grading is covered in the Graduate Catalog under "Scholastic Requirements")

A. **Significance of Undergraduate Grades.** The grades reported are as follows:

- |    |  |
|----|--|
| A  | Excellent  |
| B  | Superior   |
| C  | Medium   |
| D  | Inferior   |
| F  | failure  |
| I  | Incomplete   |
| S  | Satisfactory - Indicates credit has been earned for the course scheduled.  |
| U  | Unsatisfactory - Indicates credit has not been earned for the course scheduled.  |
| DL | Delayed - Permissible for undergraduate research 390 and must be removed at the end of the next semester or a "U" grade will be assigned by the Registrar. |

Y No grade available

Grades of "S" and "U" are permitted only for orientation courses, seminars, special problems, special readings, independent study courses (Numbered 200, 300, 350 and 390), education laboratories, research, and Pass/Fail courses. Standard grades also may be used for all of the above courses except the Pass/Fail courses.

The purpose of the "I" grade is to allow a student to complete a course when, due to illness or unavoidable absence within the last four weeks (three weeks of classes plus finals weeks) of a Fall or Winter semester, or within the last week and a half plus the final exam period of an eight-week summer session, he/she would otherwise be unable to do so. The intent is to provide a means for completing a course without having to retake the entire subject for lack of fulfillment of one or two requirements of the course.

The grade of "I" will be given only at the end of a Fall, Winter or Summer Session and only if the student has been prevented from completing a course due to sickness or unavoidable absence within the last four weeks (three weeks of classes plus finals week) of a Fall or Winter semester, or within the last week and a half plus the final exam period of an eight-week summer session, and then only if the student has a passing grade in the course up to the time of such sickness or unavoidable absence.

A form, obtained from the Office of the Registrar, must be completed, recommended by the instructor of the course and approved by the chair of the department responsible for teaching the course before the grade of "I" can be given. This approved form is retained in the departmental office.

For the purpose of determining scholastic standing, the grade of "I" will not be used.

- B. Time Limit for Removing Incompletes.** If a student receives an "I" in any course, he/she must complete the work in which he/she is deficient within one calendar year from the close of the semester in which the "I" grade was recorded. Failure to do so will result in a grade of "F" being recorded for the student. The student may not enroll for a

course in which he/she has a grade of "I" on file.

Incomplete grades recorded prior to Winter Semester 2001 must be completed by the tenth week (five weeks of an eight-week summer session) of the next term enrolled. Failure to do so will result in a grade of "F" being recorded for the student. The student may not enroll for a course in which he/she has a grade of "I" on file.

- C. Dropping Incompletes.** Prior to the Fall Semester 1992: At any time during the interval specified in Section VIII-2, Time Limit for removing Incomplete, a student may drop, without a final grade, a course in which he/she has received a grade of "I", by securing written permission from the chair of the department responsible for teaching the course, and by filing such permission with the Office of the Registrar.

**Beginning with the Fall Semester 1992:** A student may not withdraw from courses in which he/she has received an "I" grade.

- D. Grades Reported Twice During Each Semester.** All grades, except for Summer Session, will be reported to the Registrar both at mid-semester and at the end of each semester or term. Except for grades in undergraduate and graduate seminars and Special Problems courses, which need not be reported at mid-semester. At the end of each semester or term all grades will be recorded.
- E. Semester Honor Roll.** At the end of the semester all undergraduate students who meet all of the following conditions will be designated as honor students for that semester:
1. Obtained semester GPA of at least 3.200.
  2. Completion of 12 (6 during an 8-week summer session) or more semester hours of work.
  3. Obtained passing grades in all courses for that semester.
- F. Changes in Grades.** A faculty member may change grades that he/she reported at the end of any semester or term provided such changes are submitted on the form for this purpose provided by the Office of the



Registrar and signed by the instructor and the department chair.

- G. **Repeat Course GPA Adjustment.** Effective with UMR coursework repeated Fall of 2001 or later, when a grade of "D" or "F" is received in a UMR course, the grade may be replaced in the calculation of the GPA if the course is repeated at UMR. No more than 15 semester hours will be dropped from the calculation of the student's GPA and a repeated course may only be used to replace one previous grade in that same course in the GPA calculation. Grades of "I", "W", "HR" or "Pass/Fail" will not replace the previous grade. All grades earned will appear on the student's transcript. A statement of the repeat policy will be included on the transcript to explain the calculation of the GPA. After repeating a course, the student must submit a Repeat Course GPA Adjustment form to the Registrar's Office to have the GPA changed. The new grade will replace the old grade in all GPA calculations in which the previous grade was used, with the exception of the UM GPA used for calculation of graduation honors. If a student does not submit the Repeat Course GPA Adjustment, both grades will be used in GPA calculations. The scholastic standing of a student for a past semester will not be changed as a result of repeating a course. This policy applies to undergraduate students only and may not be applied once the student has graduated.

H. **Determining Scholastic Standing.**

1. **Semester Grade Point Average.** At the close of each semester, the semester average for each student is computed as the total grade points earned during that semester divided by the total number of credit hours scheduled (except courses taken under the "Pass/Fail" option).
2. **Cumulative Grade Point Average.** (Effective for new students entering fall of 1972 or later): A student's cumulative grade point average is calculated by dividing cumulative total grade points by cumulative total credit hours attempted using all courses taken for college credit for which a letter grade (or equivalent) has been given except courses taken under the "Pass/Fail" option. This grade point will be used by the Registrar to determine a student's eligibility for *Honors*

at the time of graduation (see *Section III.I*). The cumulative grade point average will be used for the purpose of ranking students at the time of graduation.

3. **Academic Grade Point Average.** Students who entered the University in the Fall semester 1972, or later, but prior to the Fall semester 1983, shall have the option of substituting the academic grade point for the cumulative grade point average except for determining eligibility for *Honors* and for the purpose of ranking students. A student's academic grade point average shall be computed using only the last grade earned in each course (all F's will be included until removed). For those students formally requesting the use of the academic grade point, both the cumulative and the academic shall show on the transcript. The cumulative GPA must be shown on the transcript.

I. **Grade Appeal Procedure**

1. The grade appeal procedure is available only for review of alleged capricious grading, not for review of the judgment of the instructor in assessing the quality of students' work or for questioning the stated grading criteria selected by the instructor. Only a student who alleges he/she was subjected to capricious grading may use the grade appeal procedure.
2. **Capricious grading**, as used here, consists only of any of the following:
  - a. The assignment of a semester grade to a particular student on some basis other than those related to academic performance in the section
  - b. The assignment of a semester grade to a particular student by more exacting or demanding criteria than were applied to other students in the same section. (NOTE: Additional and/or different grading criteria may be applied to graduate students enrolled for credit in a course numbered below the 400 level)
  - c. The assignment of a semester grade by criteria that represents a substantial departure from the

instructor's previously announced criteria.

3. **The grade appeal procedure** shall consist of the following steps:
  - a. The initial step in the grade appeal procedure shall be for the student to review with the section instructor the semester grade, the stated grading criteria and how the stated grading criteria were applied to determine the student's semester grade. This step must be initiated within 30 days after the first class day of the succeeding regular academic semester. If the student and the instructor fail to reach a mutually satisfactory decision during this discussion, then the student may proceed to step b.
  - b. The student shall contact the chair of the instructor's department and request his/her service as a mediator during a discussion between the student and the instructor. If the student and instructor fail to reach a mutually satisfactory decision during this discussion, the student may then proceed to step c.
  - c. The student shall inform the Vice Chancellor for Student Affairs at this point that a grade appeal is in process. The student shall request, in writing, that the department chairperson inform the instructor and convene an ad hoc review group composed of the following: the chairperson (or designated representative) of the instructor's department, the dean provost (or the provost's designated representative) of the instructor's school/college, and a third member to be appointed by the dean provost from his or her the faculty. The student and instructor shall be allowed to appear before the ad hoc review group. The decision reached by the ad hoc review group on the question of alleged capricious grading shall be binding and final on both the student and the instructor.
4. If capricious grading is substantiated by the ad hoc review group, the student shall be assigned a grade consistent with the

stated grading criteria. A report of the ad hoc review group, with the student's semester grade, shall be forwarded by the department chairperson to the Office of the Registrar.

- J. **Transfer Credit Policy.** UMR accepts college-level (not remedial) course credits. All grades, quality points and credit hours are transferred and computed in the cumulative GPA. Grades not included in the transfer institution's GPA due to a repeat or forgiveness policy may be removed from the UMR cumulative GPA upon verification to the Registrar's Office. No more than 15 semester transfer hours will be dropped from the calculation of the student's cumulative GPA.

College-level (not remedial) course credit earned while enrolled in high school (dual-credit) shall follow the same policy as transfer credit.

~~The last 60 hours of an undergraduate program must normally be taken in residence at UMR. A student may, with departmental approval, take up to 15 hours of this 60 hours off campus. If the student wishes to exceed 15 hours (of the last 60 hours) taken off campus, the student must obtain approval of the dean of the student's school or college upon recommendation of the student's department chair.~~

## IX. Unsatisfactory Work

- A. **Average Grade Requirements.** If a student's work is of unsatisfactory character, he/she is initially placed on scholastic probation, a penalty which carries with it exclusion from participation in certain extracurricular activities. If a student is on scholastic probation he/she is not required to resign from any organizations in which he/she is already a member, but he/she may not hold office in any organization, nor may he/she join any other organization. If his/her record is not sufficiently improved after a reasonable time, scholastic probation will be followed by suspension for general deficiency.
  1. If a student is on scholastic probation at the end of a semester, he/she shall be limited to a maximum schedule of 13 hours for the next semester in school (six hours for an eight-week summer session).

Action with respect to deficiency and probation is taken as follows:

- a. Dropped from the University if record includes one or more F's or U's and no credit hour grade higher than D
  - b. Probation if semester or cumulative GPA is less than 2.000
  - c. If current semester average is above 2.200, the student will not be placed on probation.
- Item (a) eliminates at once the student who completely neglects his or her work.
  - Item (b) places on scholastic probation a student whose semester or academic grade point average falls below a specified minimum.
  - Item (c) provides for cases in which the academic record is below normal, but where improved current performance warrants special consideration.
2. A student will be considered scholastically deficient if he/she is placed on scholastic probation two or more times. If the student is declared scholastically deficient at the end of a semester, appropriate records will be submitted immediately by the Office of the Registrar to the chair of the department in which the student is majoring (or to the appropriate advising authority for students with unspecified majors) to determine whether he/she shall be allowed to continue his/her program of study or be dropped by the University for scholastic deficiency. If the student is allowed to continue his/her studies, he/she must immediately reschedule any courses specified as a condition for his/her readmission (see *Section II.L. Cancellation of Registration and Preregistration of Students Who Are Scholastically Deficient*).
  3. A student may remove scholastic probation at the close of a Fall or Winter semester by raising his/her grade point average to meet the minimum requirements for the semester in which

he/she is registered, provided a minimum of nine (9) credit hours is passed.

- a. Credit earned in courses taken during an eight-week summer session, intersession or during a co-op work period shall not be used to change probationary status at the end of the summer session, intersession, or co-op work period. Only credits earned at UMR during a Fall or Winter semester may be used to remove scholastic probation.
  - b. Part-time students who cannot meet the nine-hour requirement may appeal to the Office of the Registrar by written petition to waive this requirement upon the recommendation of the student's department. The Department Chair and the Registrar's decision may be appealed by written petition to the Admissions and Academic Standards Committee.
  - c. If a student has been dropped for scholastic deficiency, he/she may continue his/her enrollment during a summer session but will not be allowed to enroll for a Fall or Winter semester without permission of the chair of the department in which he/she is majoring. If he/she desires to change departments and apply for readmission, the department to which admission is desired must be specified and admission is contingent upon his/her acceptance by that department and upon his/her pursuing the prescribed program of course work toward a degree in that department. Subsequent transfer to another department, whether with scholastic deficiencies or not, must be approved by that department. (If the student has not declared a major, the ~~dean~~ provost will make a decision about the readmission.)
4. In all cases of scholastic deficiency, if the student is so affected, he/she may appeal to the provost. ~~Dean of the school/college in which he/she is enrolled or to the dean of the school/college to which he/she wishes to transfer for reconsideration.~~

5. Students who have been denied readmission to the department in which they were majoring may be granted readmission to the University by the ~~dean~~ provost into a temporary status called "restricted". Restricted students are permitted to register on scholastic probation and are normally limited to a maximum schedule of 12 semester hours. Academic advising is done by an advisor assigned to the student by the ~~dean~~ provost. Readmission as a restricted student is normally with the understanding that the student will complete testing and counseling as prescribed by the UMR Counseling and Career Development Center. At the end of the first semester in a restricted category, future registration is permitted only if the student has either cleared scholastic probation or has been granted readmission to an academic department. Restricted Students are eligible for graduation from an academic department only after admission to that department.
6. A student in the Freshman Engineering Program who has completed the required core courses but who has not been admitted to any department, or who has been in the Freshman Engineering Program for four semesters but has not completed the core courses, will no longer be eligible for advising from the Freshman Engineering Program. In order to continue to receive advising for registration purposes at UMR such a student must either:
  - a. Be admitted to a department and pursue a degree in that department
  - b. Successfully appeal to the director of the Freshman Engineering Program to be allowed to continue in that program in an effort to improve his or her performance to the level necessary to be admitted to a department
  - c. Be accepted by a ~~school/college dean~~ the provost in a non-degree category. Part-time Freshman Engineering Program students will be evaluated by the director of the Freshman Engineering Program to determine when they should be expected to complete the program. Such students

will then, after that expected completion date, be subject to the conditions of eligibility for advising for full-time students who have exhausted the four-semester time limit. All decisions of the Freshman Engineering Program director may be appealed to the ~~school dean~~ provost.

## X. Probation

### A. Definition of Probation.

1. **Disciplinary Probation.** If a student is placed on disciplinary probation, he/she is ineligible to participate in any student activity for the period of probation. This is interpreted to mean that if the student is on probation, he/she is not required to resign from student organizations in which he/she is already a member, but he/she may not hold office in any student organization nor join any other student organization. If a student is on disciplinary probation, he/she may not represent the institution in any way. Additional restrictions may be imposed upon the student by the authority imposing the probation.
2. **Scholastic Probation.** Scholastic probation is covered by the rules regarding unsatisfactory work in this manual (see *Section IX.B, Average Grade Requirements*).

If a student is on scholastic probation, he/she may not hold office in any student organization. He/she is not required to resign from organizations in which he/she is already a member, but he/she may not pledge, be initiated into or join any other organization. Appeals related to that part of the regulations concerning holding an office in student organizations may be initiated in the Student Activities Office.

Failure to submit the completed appeal form within 10 school days following notification of the probationary status by the Student Activities Office will result in automatic denial of the appeal.

### B. Penalty for Failure to Comply with Terms of Probation.

1. **Disciplinary Probation.** If a student fails to comply with the terms of a disciplinary probation, he/she is liable to suspension or expulsion.
2. **Scholastic Probation.** If a student fails to meet the requirements of a scholastic probation, he/she will be dropped from the ~~school~~ university. He/she shall be reported to the ~~dean of his/her school/college~~ provost who shall decide whether or not the student may be readmitted, and if so, under what conditions.

## XI. Discipline

### Student Disciplinary Matters

#### Rules of Procedures in Student Conduct Matters

##### A. Preamble.

The following rules of procedure in student conduct matters are hereby adopted in order to insure insofar as possible and practicable (a) that the requirements of procedural due process in student conduct proceedings will be fulfilled by the University, (b) that the immediate effectiveness of Article V of the Bylaws of the Board of Curators relating to student conduct and sanctions may be secured for all students in the University of Missouri, and (c) that procedures shall be definite and determinable within the University of Missouri.

##### B. Definitions.

As used in these rules, the following definitions shall apply:

1. **Primary Administrative Officers.** As used in these procedures, "Primary Administrative Officer" is charged with the responsibility for the administration of these student conduct procedures and refers to the person or persons on each campus designated.
2. **Student Panel.** A panel of students appointed by the Chancellor, from which shall be selected by the Chair, upon the request of a student charged before the Student Conduct Committee. No more

than three students shall serve with the Student Conduct Committee.

3. **Student.** A person having once been admitted to the University who has not completed a course of study and who intends to or does continue a course of study in or through one of the campuses of the University. For the purpose of these rules, student status continues whether or not the University's academic programs are in session.
4. **Student Conduct Committee.** As used in these procedures, "Student Conduct Committee," hereinafter referred to as the Committee, is that body on each campus that is authorized to conduct hearings and to make dispositions under these procedures or a hearing panel of such body as herein defined.

##### C. Sanctions.

1. The following sanctions may be imposed upon any student found to have violated the Student Conduct Code. More than one of the sanctions may be imposed for any single violation:
  - a. Warning. A notice in writing to the student that the student is violating or has violated institutional regulations.
  - b. Probation. A written reprimand for violation of specified regulations. Probation is for a designated period of time and includes the probability of more severe sanctions if the student is found to be violating any institutional regulation(s) during the probationary period.
  - c. Loss of Privileges. Denial of specified privileges for a designated period of time.
  - d. Restitution. Compensation for loss, damage or injury to the University of Missouri property. This may take the form of appropriate service and/or monetary or material replacement.
  - e. Discretionary Sanctions. Work assignments, service to the University or other related discretionary assignments.

- f. Residence Hall Suspension. Separation of the student from the residence halls for a definite period of time, after which the student is eligible to return. Conditions for readmission may be specified.
- g. Residence Hall Expulsion. Permanent separation of the student from the residence halls.
- h. University Dismissal. An involuntary separation of the student from the institution for misconduct apart from academic requirements. It does not imply or state a minimum separation time.
- i. University Suspension. Separation of the student from the University for a definite period of time, after which the student is eligible to return. Conditions for readmission may be specified.
- j. University Expulsion. Permanent separation of the student from the University.

2. **Temporary Suspension.** The Chancellor or designee may at any time temporarily suspend or deny readmission to a student from the University pending formal procedures when the Chancellor or designee finds and believes from available information that the presence of a student on campus would seriously disrupt the University or constitute a danger to the health, safety or welfare of members of the University community. The appropriate procedure to determine the future status of the student will be initiated within seven calendar days.

B. **Records Retention.** Student conduct records shall be maintained for five years after University action is completed.

C. **Policy and Procedures.**

- 1. **Primary Administrative Officers.** The Chief Student Affairs Administrator on each campus or designee is the primary officer except in cases of academic dishonesty, where the Chief Academic Administrator responsible for

administering the Student Conduct Code or designee is the primary administrative officer.

2. **Preliminary Procedures.** The Primary Administrative Officer shall investigate any reported student misconduct before initiating formal conduct procedures and give the student the opportunity to present a personal version of the incident or occurrence. The Primary Administrative Officer may discuss with any student such alleged misconduct and the student shall attend such consultation as requested by the Primary Administrative Officer. The Primary Administrative Officer, in making an investigation and disposition, may utilize student courts and boards and/or ~~divisional deans to make the~~ recommendations the provost.

3. **Informal Dispositions.** The Primary Administrative Officer shall have the authority to impose appropriate sanctions and shall fix a reasonable time within which the student shall accept or reject a proposed informal disposition. A failure of the student either to accept or reject within the time fixed shall be deemed to be an acceptance and, in such event, the proposed disposition shall become final upon expiration of such time. If the student rejects informal disposition it must be in writing and shall be forwarded to the Committee. The Primary Administrative Officer may refer cases to the Committee without first offering informal disposition.

4. **Formal Procedure and Disposition.**

a. **Student Conduct Committee:**

- i. The Committee shall be appointed by the Chancellor and shall have the authority to impose appropriate sanctions upon any student or students appearing before it.
- ii. The Committee, when appropriate or convenient, may be divided by the Chair of the Committee into Hearing Panels, each panel to be

composed of at least five Committee members, which may include a maximum of two students, present at the hearing, including a designated chair. A Hearing Panel has the authority of the whole Committee in those cases assigned to it. The Chair of the Committee or of a Hearing Panel shall count as one member of the Committee or Hearing Panel and have the same rights as other members.

- iii. Each Chancellor shall appoint a panel of students, to be known as the Student Panel. Upon written request of a student charged before the Committee, made at least seventy-two (72) hours prior to the hearing, the Chair of the Committee or Hearing Panel shall appoint from the Student Panel not more than three students to sit with the Committee or two students to sit with the Hearing Panel (as stated in 4.a.ii) for that particular case. When students from the Student Panel serve at the request of a student charged, they shall have the same rights as other members of the Committee or Hearing Panel.

b. **General Statement of Procedures.**

A student charged with a breach of the Student Conduct Code is entitled to a written notice and a formal hearing unless the matter is disposed of under the rules for informal disposition. Student conduct proceedings are not to be construed as judicial trials and need not wait for legal action before proceeding. However, care shall be taken to comply as fully as possible with the spirit and intent of the procedural safeguards set forth herein.

The Office of the General Counsel shall be legal advisor to the Committee and the Primary Administrative Officer.

- c. **Notice.** The Primary Administrative Officer shall initiate student conduct proceedings by arranging with the Chair to call a meeting of the Committee and by giving written

notice by certified mail or personal delivery to the student charged with misconduct. The notice shall set forth the date, time and place of the alleged violation and the date, time and place of the hearing before the Committee. Notice by certified mail may be addressed to the last address currently on record with the University. Failure by the student to have a current correct local address on record with the University shall not be construed to invalidate such notice. The notice shall be given at least seven consecutive days prior to the hearing, unless a shorter time is fixed by the Chair for good cause. Any request for continuance shall be made in writing to the Chair, who shall have the authority to continue the hearing if the request is timely and made for good cause. The Chair shall notify the Primary Administrative Officer and the student of the new date for the hearing. If the student fails to appear at the scheduled time, the Committee may hear and determine the matter.

5. **Right to Petition for Review.** (Other than University expulsion, University dismissal or University suspension).

- a. In all cases where the sanction imposed by the Committee is other than University expulsion, University dismissal, or University suspension, the Primary Administrative Officer or the student may petition the Chancellor or designee in writing for a review of the decision within five calendar days after written notification. A copy of the Petition for Review must also be served upon the nonappealing party within such time. The Petition for Review shall state the grounds or reasons for review, and the nonappealing party may answer the petition within five calendar days.
- b. The Chancellor or designee may grant or refuse the right of review. In all cases where the Petition for Review is refused, the action of the Committee shall be final. If the Chancellor or designee reviews the decision, the action of the Chancellor shall be final

unless it is to remand the matter for further proceedings.

**6. Right of Appeal.** (University expulsion, University dismissal or University suspension only).

a. When a student is expelled, dismissed or suspended from the University by the Committee, the Primary Administrative Officer or the student may appeal such decision to the Chancellor or designee by filing written notice of appeal with the Chancellor within ten calendar days after notification of the decision of the Committee. A copy of the Notice of Appeal will contemporaneously be given by the student to the Primary Administrative Officer to the student. The appealing party may file a written memorandum for consideration by the Chancellor with the Notice of Appeal, and the Chancellor may request a reply to such memorandum by the appropriate party.

b. The Chancellor or designee shall review the record of the case and the appeal documents and may affirm, reverse or remand the case for further proceedings and shall notify each party in writing of the decision on the appeal. The action of the Chancellor shall be final unless it is to remand the matter for further proceedings.

**7. Status During Appeal.** In cases of suspension, dismissal or expulsion where a Notice of Appeal is filed within the required time, a student may petition the Chancellor in writing for permission to attend classes pending final determination of appeal. The Chancellor may permit a student to continue in school under such conditions as may be designated pending completion of appellate procedures, provided such continuance will not seriously disrupt the University or constitute a danger to the health, safety or welfare of members of the University community. In such event, however, any final sanctions imposed shall be effective from the date of the action of the Committee.

**8. Student Honor System.** Forums under the student honor systems established for investigating facts, holding hearings, and recommending, and imposing sanctions are authorized when the student honor code or other regulations containing well defined jurisdictional statements and satisfying the requirements of Article V of the Bylaws of the Board of Curators have been reduced to writing and have been approved by the Chancellor and the Board of Curators and notice thereof in writing has been furnished to students subject thereto. Procedures shall satisfy the requirements of the Board of Curators' Bylaws, Article V, and shall contain procedures herein before stated insofar as appropriate and adaptable to the particular situation and shall be approved by the Chancellor and the General Counsel. Students subject to student honor systems shall have the rights of appeal as set forth in Section 200.020 E.6 and 7.

**D. Hearing Procedures.**

**1. Conduct of Hearing.** The Chair shall:

- Preside at the hearing
- Call the hearing to order
- Call the roll of the Committee in attendance
- Ascertain the presence or absence of the student charged with misconduct
- Read the notice of hearing and charges
- Verify the receipt of notices of charges by the student
- Report any continuances requested or granted
- Establish the presence of any advisor or counselor of the student
- Call to the attention of the student charged and the advisor any special or extraordinary procedures to be employed during the hearing and permit the student to make suggestions regarding or objections to any procedures for the Conduct Committee to consider.

**a. Opening Statements.**

- i. The Primary Administrative Officer shall make opening remarks outlining the general nature of the



case and testify to any facts the investigation has revealed.

- ii. The student may make a statement to the Committee about the charge at this time or at the conclusion of the University's presentation.

**b. University Evidence.**

- i. University witnesses are to be called and identified or submit written reports of evidence introduced as appropriate.
- ii. The Committee may question witnesses at any time.
- iii. The student or, with permission of the Committee, the advisor or counselor may question witnesses or examine evidence at the conclusion of the University's presentation.

**c. Student Evidence.**

- i. The student shall have the opportunity to make a statement to the Committee about the charge.
- ii. The student may present evidence through witnesses or in the form of written memoranda.
- iii. The Committee may question the student or witnesses at any time. The Primary Administrative Officer may question the student or witnesses.

- d. Rebuttal Evidence.** The Committee may permit the University or the student to offer a rebuttal of the other's presentation.

- e. Rights of Student Conduct Committee.** The Committee shall have the right to:

- i. Hear together cases involving more than one student which arise out of the same transaction or

occurrence, but in that event shall make separate findings and determinations for each student

- ii. Permit a stipulation of facts by the Primary Administrative Officer and the student involved

- iii. Permit the incorporation in the record by a reference of any documentation, produced and desired in the record by the University or the student charged

- iv. Question witnesses or challenge other evidence introduced by either the University or the student at any time

- v. Hear from the Primary Administrative Officer about dispositions made in similar cases and any dispositions offered to the student appearing before the Committee

- vi. Call additional witnesses or require additional investigation

- vii. Dismiss any action at any time or permit informal disposition as otherwise provided

- viii. Permit or require at any time amendment of the Notice of Hearing to include new or additional matters which may come to the attention of the Committee before final determination of the case, provided that in such event, the Committee shall grant to the student or Primary Administrative Officer such time as the Committee may determine reasonable under the circumstances to answer or explain such additional matters

- ix. Dismiss any person from the hearing who interferes with or obstructs the hearing or fails to abide by the rulings of the Chair of the Committee

- x. Suspend summarily students from the University whom, during the

hearing, obstruct or interfere with the course of the hearing or fail to abide by the ruling of the Chair of the Committee on any procedural question or request of the Chair for order.

**2. Rights of Students Upon Hearing.** A student appearing before a Committee shall have the right to:

- a. Be present at the hearing
- b. Have an advisor or counselor and to consult with such advisor or counselor during the hearing
- c. Have students from the Student Panel sit with the Committee or Hearing Panel
- d. Hear or examine evidence presented to the Committee
- e. Question witnesses present and testifying
- f. Present evidence by witnesses or affidavit
- g. Make any statement to the Committee in mitigation or explanation of the conduct in question
- h. Be informed in writing of the findings of the Committee and any sanctions it imposes
- i. Request review or appeal to the Chancellor as herein provided.

**3. Determination by the Student Conduct Committee.** The Committee shall then make its findings and determinations in executive session out of the presence of the Primary Administrative Officer and the student charged. Separate findings are to be made as to the conduct of the student and

on the sanctions, if any, to be imposed. No sanctions shall be imposed on the student unless a majority of the Committee present is reasonably convinced by the evidence that the student has committed the violation charged.

**4. Official Report of Findings and Determinations.** The Committee shall promptly consider the case on the merits and make its findings and determination and transmit them to the Primary Administrative Officer and the student charged forthwith.

**5. Other Procedural Questions.** Procedural questions which arise during the hearing not covered by these general rules shall be determined by the Chair, whose ruling shall be final unless the Chair shall present the question to the Committee at the request of a member of the Committee, in which event the ruling of the Committee by majority vote shall be final.

**6. General Rules of Decorum.** The following general rules of decorum shall be adhered to:

- a. All requests to address the Committee shall be addressed to the Chair.
- b. The Chair will rule on all requests and points or order and may consult with Committee's legal advisor prior to any ruling. The Chair's ruling shall be final and all participants shall abide thereby, unless the Chair shall present the question to the Committee at the request of a member of the Committee, in which event the ruling of the Committee by majority vote shall be final.
- c. Rules of common courtesy and decency shall be observed at all times.

# Conduct of Students

Amended Bd. Min. 3-20-81; Bd. Min. 8-3-90, Bd. Min 5-19-94; Bd. Min. 5-24-01.

## 200.010 STANDARD OF CONDUCT

A student enrolling in the University assumes an obligation to behave in a manner compatible with the University's function as an educational institution.

A. **JURISDICTION OF THE UNIVERSITY OF MISSOURI** generally shall be limited to conduct which occurs on the University of Missouri premises or at University-sponsored or University-supervised functions. However, nothing restrains the administration of the University of Missouri from taking appropriate action, including, but not limited to, the imposition of sanctions under Section 200.020(C), against students for conduct on or off University premises in order to protect the physical safety of students, faculty, staff, and visitors.

B. **CONDUCT** for which students are subject to sanctions falls into the following categories:

1. **Academic dishonesty**, such as cheating, plagiarism, or sabotage. The Board of Curators recognizes that academic honesty is essential for the intellectual life of the University. Faculty members have a special obligation to expect high standards of academic honesty in all student work. Students have a special obligation to adhere to such standards. In all cases of academic dishonesty, the instructor shall make an academic judgment about the student's grade on that work and in that course. The instructor shall report the alleged academic dishonesty to the Primary Administrative Officer.

- a. The term **cheating** includes but is not limited to:
- i use of any unauthorized assistance in taking quizzes, tests, or examinations
  - ii dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments
  - iii acquisition or possession without

permission of tests or other academic material belonging to a member of the University faculty or staff

- iv knowingly providing any unauthorized assistance to another student on quizzes, tests, or examinations.

b. The term **plagiarism** includes, but is not limited to: (i) use by paraphrase or direct quotation of the published or unpublished work of another person without fully and properly crediting the author with footnotes, citations or bibliographical reference; (ii) unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials; or (iii) unacknowledged use of original work/material that has been produced through collaboration with others without release in writing from collaborators.

c. The term **sabotage** includes, but is not limited to, the unauthorized interference with, modification of, or destruction of the work or intellectual property of another member of the University community.

2. **Forgery, alteration, or misuse** of University documents, records or identification, or knowingly furnishing false information to the University.
3. Obstruction or disruption of teaching, research, administration, conduct proceedings, or other University activities, including its public service functions on or off campus.
4. Physical abuse or other conduct which threatens or endangers the health or safety of any person.
5. Attempted or actual theft of, damage to, or possession without permission of property of the University or of a member

- of the University community or of a campus visitor.
6. Unauthorized possession, duplication or use of keys to any University facilities or unauthorized entry to or use of University facilities.
  7. Violation of University policies, rules or regulations or of campus regulations including, but not limited to, those governing residence in University-provided housing, or the use of University facilities, or the time, place and manner of public expression.
  8. Manufacture, use, possession, sale or distribution of alcoholic beverages or any controlled substance without proper prescription or required license or as expressly permitted by law or University regulations, including operating a vehicle on University property, or on streets or roadways adjacent to and abutting a campus, under the influence of alcohol or a controlled substance as prohibited by law of the state of Missouri.
  9. Disruptive or disorderly conduct or lewd, indecent, or obscene conduct or expression.
  10. Failure to comply with directions of University officials acting in the performance of their duties.
  11. The illegal or unauthorized possession or use of firearms, explosives, other weapons, or hazardous chemicals.
  12. Misuse in accordance with University policy of computing resources, including but not limited to:
    - a. Actual or attempted theft or other abuse.
    - b. Unauthorized entry into a file to use, read, or change the contents, or for any other purpose.
    - c. Unauthorized transfer of a file.
    - d. Unauthorized use of another individual's identification and password.
    - e. Use of computing facilities to interfere with the work of another student, faculty member, or University official.
    - f. Use of computing facilities to interfere with normal operation of the University computing system.
    - g. Knowingly causing a computer virus to become installed in a computer system or file.

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# FACULTY BYLAWS OF THE UNIVERSITY OF MISSOURI-ROLLA

Bd. Min. 6-25-71, p. 35,936; Amended Bd. Min. 10-12-73, p. 36,845; Bd. Min. 10-31-75, p. 37,462; Bd. Min. 11-13-81, 5-7-82 & 6-22-84; Bd. Min. 6-13-86; Bd. Min. 6-24-88; Bd. Min. 6-23-89; Bd. Min. 10-13-89; Bd. Min. 8-3-90, 7-30-92; Amended Bd. Min. 3-20-97; Bd. Min. 3-22-02; Bd. Min. 10-17-03.

## 300.030 FACULTY BYLAWS OF THE UNIVERSITY OF MISSOURI-ROLLA

**A. PREAMBLE** -- The faculty of the University of Missouri-Rolla in order to facilitate communications and to provide for effective academic governance, for participation in decision making, and for shared responsibility in academic affairs, do establish and subscribe to these Bylaws.

### B. EXECUTIVE AUTHORITY

1. **University** -- The President of the University of Missouri is its chief executive officer and academic officer.
2. **Campus** -- The Chancellor of the University of Missouri-Rolla is the chief executive officer. The Provost is the chief and academic officer. ~~of the campus.~~

### C. GENERAL FACULTY

1. **Membership** -- The General Faculty of the University of Missouri-Rolla consists of all tenured, tenure-track, and non-tenure track full-time faculty staff members holding the rank of instructor or above, the President, the Chancellor, the Provost, ~~the Deans,~~ the Registrar, ~~the Director of Admissions,~~ the Director of the Librarian, and any other person who may be elected by a two-thirds majority vote of the General Faculty. Voting members of the General Faculty are the full time tenured and tenure-track faculty of the University of Missouri-Rolla. All members of the general faculty have the right to participate in discussions.
2. **Duties, Powers, Responsibilities & Privileges** -- The primary functions of the faculty are education, research and service. The responsibilities and functions of the faculty are those derived from its authority to organize as granted to it by the Board of Curators. It shall have such other authority as delegated to it by the President and/or the Chancellor. The General Faculty is responsible for academic programs concerning the University of Missouri-Rolla ~~Campus~~ or those involving more than one ~~School, College, or Division,~~ Department, and for matters affecting the welfare of the institution, including but not limited to: academic standards and courses of instruction; and general standards to be met by educational, research, and service programs. The faculty may also make recommendations to the Chancellor on: institutional facilities, personnel and resources, professional standards, employment qualifications, tenure, promotion, salary, retirement, and other factors affecting faculty morale and welfare; and student affairs including health, welfare, conduct and morale of the students.

### 3. Faculty Rights and Responsibilities

- a. **Academic Rights** -- Each faculty member has the right to freedom of inquiry, discourse, teaching, research and publication, as well as the responsibilities correlative with this right (as prescribed by the Board's Rules and Regulations).
- b. **Civil Rights** -- Faculty members are not required to relinquish any of their constitutional rights (as prescribed by the Board's Rules and Regulations).
- c. **Employment Rights** -- Faculty members shall have rights consistent with their continuous appointment or term appointment (during the term), except for cause, retirement or financial exigencies (as stated in the Board's Rules and Regulations).
- d. **Notification of Appointment** -- Faculty members shall be notified of their appointments promptly (as stated in the Board's Rules and Regulations).
- e. **Right to be Kept Informed** -- The faculty shall be kept informed of actions and activities of campus committees and campus executive officers, and of other occurrences that pertain to the University of Missouri-Rolla. Where possible such information, to include referrals, committee minutes, experimental course (EC), course change (CC), and degree change (DC) forms, and other documents related to faculty governance responsibilities shall be made available to the Faculty via the internet or by other means as appropriate before being made available to the general public.

4. **Officers of the General Faculty** -- The officers of the General Faculty shall consist of the President of the University, the Chancellor, the President of the Faculty Senate~~Academic Council~~, a Secretary, and a Parliamentarian.

- a. **Chancellor** -- The Chancellor of the University of Missouri-Rolla is the presiding officer of the General Faculty. The Chancellor presides at meetings of the General Faculty but may extend this right to the President of the University when present.
- b. **President** -- The President of the Faculty Senate~~Academic Council~~ presides at meetings of the General Faculty in the absence of or at the discretion of the Chancellor.
- c. **Secretary** -- The Secretary is appointed by the Chancellor and need not be a member of the General Faculty. The Secretary keeps minutes of the proceedings of the General Faculty meetings. The Secretary is required to distribute an agenda prior to each meeting, and the minutes after each meeting, to all members of the General Faculty.
- d. **Parliamentarian** -- The Parliamentarian is appointed by the Chancellor and must be a member of the General Faculty.

5. **Meetings** -- All meetings are called by the Chancellor. A quorum shall consist of ~~tent~~twenty (10) percent of the voting members when business described in the published agenda is being considered and fifty (50) percent of the voting members when other items of business are being considered.

a. **Regular Meetings** -- There shall be at least three (3) regular meetings of the General Faculty each academic year.

#### b. Special Meetings

(1) Special meetings are called upon the request of the President of the University; of the Chancellor; of the Faculty Senate~~Academic Council~~; and by written petition of five (5)

percent of the members of the General Faculty ~~or ten (10) percent of the faculty members of any school or college.~~

(2) All Special Meetings shall be called within ten (10) school days after the request is presented to the Chancellor.

(3) Only topics designated in the call for a Special Meeting may be discussed or acted upon at said meeting.

c. **Notice of Meetings** -- Notice of all meetings of the General Faculty shall be sent to each member of the General Faculty at least five (5) school days prior to the meeting. Such notice includes the agenda for the meeting.

d. **Restriction on Voting at Regular Meetings** -- In general, business coming before the General Faculty for action at a regular meeting shall be placed on the agenda before coming to a vote. Any other matters may be placed before the General Faculty and acted upon at a regular meeting without being placed on the agenda, unless five (5 voting members) members of the General Faculty request a delay. If such a request for delay is presented, the presiding officer delays the vote until the next regular meeting of the General Faculty at which time the matter will automatically be placed on the agenda, unless the matter has been acted upon at a special meeting before the next regular meeting is held.

e. **Minutes of Meetings** -- Minutes of all General Faculty meetings will be distributed by the Secretary to all members of the General Faculty within ten (10) school days after the meeting.

f. **Rules of Order** -- Meetings of the General Faculty are conducted in accordance with Robert's Rules of Order.

**D. FACULTY ORGANIZATIONS** -- The primary functional unit of the faculty is the Department. For its governance purposes the faculty is further~~The faculty is organized into the General Faculty, departments, schools, colleges, the Graduate Faculty, the Faculty Senate, Academic Council and Standing Committees, Judicial Committees, and Special Programs.~~

## 1. Departments

### a. Organization and Membership

(1) Departments are the primary functional units of the campus. The program of a department is conducted by its faculty through the ~~chairman~~, who has general responsibility over the department. The ~~chairman~~ shall act as the administrative representative of the department in its official relations with the University.

(2) Members of the department are all those members of the faculty who hold the rank of Instructor or above in the department, and such other persons ~~as~~who teach in or do research in the department and are accepted by a majority vote of the department members.

(3) When the position of department chair is vacated, a search and screen committee consisting of only individuals elected by the department tenured/tenure track faculty will search for and screen applicants (in accordance with UMR EEO/AA procedures), will select candidates to be interviewed, and will interview them with the assistance of other



faculty, administrators, staff, and students. Up to five candidates will then be selected by a majority vote of the department tenured/tenure track faculty, and the names of the selected candidates will be forwarded to the Provost~~dean~~. The Provost~~dean~~ then shall select one of the nominated candidates to be the new department chair, or return the search to the committee with an explanation of why the candidates are unacceptable or unavailable. The committee will operate until a new department chair is selected.

#### **b. Operation and Meetings**

(1) Department meetings are held throughout the academic year and are conducted according to democratic procedures. All matters concerning the department are open to discussion.

(2) When a department position is to be filled, knowledge of the qualifications of the applicants is to be made available to the department members. Their opinions on the choice of candidates shall be sought by the chairperson before final recommendations for appointment are submitted.

**c. Responsibility and Authority** -- Faculty members direct and perform the work of instruction, coordinate and conduct research within the department, and provide service within the University, to the academic community, and to the public. They are also concerned about the internal administration of the department and should be kept fully informed consistent with 20.110 of the Collected Rules and Regulations about all matters related to the department except any matter that is explicitly protected by written university policy, or confidentiality or privacy laws preventing disclosure. Proposals for changes in curriculum or courses may be initiated by the department and submitted to the Curricula Committee. Each department, acting in accordance with the Rules and Regulations established by the Board of Curators and Campus Policy, shall have delegated directly to it by the General Faculty jurisdiction over matters primarily of interest only to that department. This includes but is not limited to: entrance requirements for degree programs; the curricula of the department; action concerning petitions for changes in prescribed courses of study presented by individual students enrolled in the department; decisions concerning the scholastic standing of students enrolled in the department; recommendations to the General Faculty concerning the granting of degrees to students enrolled in the department; and primary responsibility for maintaining and improving the academic excellence of the department. All academic coursework shall be offered by departments, with the exception of courses offered through Special Programs.

## **2. Special Programs**

**a. Definition of Special Programs.** Special Programs are academic programs that are highly interdisciplinary, or for some other reason may not readily conform to the Academic Department structure.

**b. Creation of Special Programs.** The Provost may propose, with the appropriate academic rationale and suggested structure, that a Special Program be formed. The Provost forwards the proposed program, with his/her recommendations, and the suggested constituencies from which the Program Representatives will be drawn, to the Faculty Senate for approval.

**c. Governance of Special Programs.** Each Special Program will be governed by a Board of Program Representatives. The mechanism for selection of the Program Representatives must be delineated in the Special Program proposal from full time, ranked, faculty - to be elected by and from the faculty of the participating Academic Departments. The election of Program Representatives shall be conducted by the Provost, or his/her designee. The Provost will inform the Faculty Senate of the composition of the Program Representatives upon initial creation of the Program, and annually thereafter.

**d. Program Leader.** The Program Representatives shall normally select a Program Leader from their ranks. The Program Leader is authorized, upon a vote of the Program Representatives, to submit curricula changes to the Faculty Senate via the Campus Curricula Committee. The Program Leader may act as the signature authority for items within the purview of the Program.

**e. Scope of Special Programs.** Special Programs shall not duplicate, or infringe, on Academic Department responsibilities. Special Programs shall not offer Bachelors, Masters or Ph.D. degrees, but may offer Certificates, Minors, or other acknowledgements of a student's participation in a Special Program. Special Programs may offer a limited number of courses provided they are no more than one credit hour.

**f. Modification and Deletion of Special Programs.** Requests to alter the number of Program Representatives, method of selection of Program Representatives, or the Academic Departments which they represent, must be approved by both the Provost and the Faculty Senate. Elimination of a Special Program also requires the approval of the Provost and Faculty Senate.

## **2. ~~Schools and Colleges~~**

### **a. ~~Membership and Organization~~**

~~(1) The faculty of schools and colleges consists of all Professors, Associate Professors, Assistant Professors, and Instructors in the departments that belong to the school or college, non-teaching officers of research or extension who hold the rank or rank equivalent to Instructor or higher, and the Dean, Associate Deans and Assistant Deans. The Provost, Vice Provosts, and the Chancellor also serve as ex-officio members.~~

~~(2) The chief executive and administrative officer of each school or college is the Dean. When the position is vacated the Dean shall be nominated by the Chancellor after formal consultation with a committee elected from and by the school or college faculty. The Dean is responsible to the Chancellor for the administration of educational and research policy. The Dean is responsible for the internal structuring of the school or college faculty, including an agenda committee and other appropriate committees.~~

### **b. ~~Meetings~~**

~~(1) Each school or college faculty will meet at least once a semester at the call of the Dean. A quorum shall consist of twenty (20) percent of the members when business described in the published agenda is being considered and fifty percent when other items of business are being considered. Notice of the business to be conducted at each meeting shall be given in the call for the meeting. Written notice thereof shall be mailed to all~~

members of the school or college faculty at least one week in advance of the meeting. The Dean is the presiding officer.

(2) **Special Meetings** — Special meetings are called upon request of the Dean of the school or college; and by written petition of ten (10) percent of the membership. All special meetings shall be called within ten (10) school days after the request has been made.

~~c. **Responsibility and Authority** — Each school or college faculty, acting in accordance with the Rules and Regulations established by the Board of Curators and Campus Policy, shall have delegated directly to it by the General Faculty jurisdiction over matters primarily of interest only to that school or college, including but not limited to: distribution of units of entrance requirements; the curricula of the departments; action concerning petitions for changes in prescribed courses of study, presented by the individual students enrolled in the school or college; decisions concerning the scholastic standing of students enrolled in the school or college; recommendations to the General Faculty concerning the granting of degrees to students enrolled in the school or college; and primary responsibility for maintaining and improving the academic excellence of all departments within the school or college.~~

### 3. Graduate Faculty

a. **Membership** -- The membership of the Graduate Faculty shall consist of the following: The President of the University of Missouri, the Chancellor, the Provost, all Academic Vice Provosts~~Deans that have administrative responsibility related to graduate programs~~, chairmen of departments authorized to offer graduate degree programs, and other ranked members of the instructional and research faculty with rank of or rank equivalent to Assistant Professor or higher, who are accepted under the rules of the Graduate Faculty to assume the responsibilities and authorities delegated to it.

b. **Meetings** -- Regular meetings of the Graduate Faculty shall be held, upon the call of the Provost, at least once each semester. The call for meetings shall be mailed to all members of the Graduate Faculty at least one week in advance of the meetings. A quorum shall consist of those members in attendance when considering items included in an agenda sent to members at least one week in advance of the meeting. No business shall be conducted on other items without a quorum consisting of fifty (50) percent of the members of the Graduate Faculty. The Provost is the presiding officer. Minutes of Graduate Faculty meetings shall be distributed to all members of the General Faculty within ten days.

c. **Special Meetings** -- Special meetings are called upon the request of the Provost and by written petition of five (5) percent of the membership of the Graduate Faculty. All special meetings shall be called within ten (10) school days after the request has been made.

d. **Responsibility and Authority** -- The Graduate Faculty, acting in accordance with the Rules and Regulations of the Board of Curators and Campus Policy legislated by the General Faculty, is responsible for the establishment of the policies, rules, and regulations governing all graduate studies on the campus. Specific functions of the Graduate Faculty are:

- (1) To exercise responsibility for research and for creative or scholarly work on the graduate level and to make recommendations to the Chancellor and the General Faculty concerning the fostering of these activities.
- (2) To have special regard for campus problems involving graduate students, to make regulations concerning eligibility and requirements for graduate degrees and to consider and to act on recommended curricula and course offerings within the graduate programs.
- (3) To recommend to the Chancellor, for presentation for approval to the General Faculty, names of acceptable candidates for graduate degrees.
- (4) To administer graduate fellowships, scholarships, and similar awards.

#### **4. Faculty Senate~~Academic Council~~**

a. **Authority and Responsibility** -- The Faculty Senate~~Academic Council~~ is the legislative and policy-making body of the General Faculty. It carries out the functions and responsibilities assigned to it by the General Faculty and shall consider all matters referred to and by the Board of Curators, the President of the University, the Chancellor, and individual faculty members. The Faculty Senate~~Academic Council~~, acting in accordance with the Rules and Regulations of the Board of Curators and the General Faculty, formulates, recommends and assists in the implementation of policies concerning the educational and research operations of the campus and other matters affecting the welfare of the campus, the faculty and the students.

#### **b. Membership and Voting Rights**

- (1) Members of the Faculty Senate~~Academic Council~~ are elected in August, and serve from September 1 until the end of their term.
- (2) Faculty representatives are elected from and by each department as follows: Each department elects one representative for the first ten (10) or fraction thereof, full-time faculty members in that department, and an additional representative for each additional ten (10) full-time faculty members in that department, rounded off to the nearest ten (10) faculty members, with five (5) being rounded upward.
- (3) Ex officio non-voting members of the Faculty Senate~~Academic Council~~ consist of the Provost, Vice Chancellor for Student Affairs, Registrar, Staff Council President, Student Council President and Vice President, and Council of Graduate Students President.~~Chancellor, Provost, and Vice Chancellor for Student Affairs and Academic Deans. Ex officio non-voting members may be appointed by the Chancellor.~~
- (4) ~~Student representatives are selected as follows: The Student Council will select one representative for each one thousand (1,000) full-time undergraduate students or fraction thereof, with all privileges except voting. The Council of Graduate Students will also select one representative for each one thousand (1,000) graduate students or fractions thereof, with all privileges except voting.~~
- (45) All members of the General Faculty are eligible to vote for, to be elected to, and to serve on the Faculty Senate~~Academic Council~~.
- (56) All full-time students in good standing are eligible to be selected to and to serve on the Faculty Senate~~Academic Council~~.

### **(7) Terms of Office**

(a) Departmental representatives serve ~~two~~ 2-year terms. Any departmental representative unable to serve during a given semester will be replaced by special election in the department. The replacement either finishes the term or serves the semester in question, at the discretion of the department.

(b) Student members are selected to a ~~one~~ 1-year term.

**c. Officers of the Faculty Senate~~Academic Council~~** -- The officers of the Faculty Senate~~Academic Council~~ consist of a Past President, President, President-Elect, Secretary and Parliamentarian. The new officers, with the exception of the Past President, are elected annually from the membership of the Council~~Faculty Senate~~ by its voting members. The election is held during the meeting in which the new members are seated. The Past President presides at the meeting for electing new officers.

(1) The President presides at the meetings of the Faculty Senate~~Academic Council~~. The President is the official spokesman of the Council~~Faculty Senate~~ and maintains open communications with the faculty, administration and students. The President is responsible for supervising all authority delegated by the Council~~Faculty Senate~~ and execution of decisions made by the Council~~Faculty Senate~~.

(2) The President-Elect serves in the capacity of the President during the latter's absence, or upon the President's request. The President-Elect is also an assistant to the President.

(3) The Secretary is responsible for all records, minutes, resolutions, and correspondence of the Faculty Senate~~Academic Council~~. The Secretary supervises the publications of the agenda and the minutes of the meetings. The minutes shall be distributed by the Secretary of the Faculty Senate~~Academic Council~~ to all members of the General Faculty within ten (10) days after the meeting.

(4) The Parliamentarian makes recommendations on questions of parliamentary procedure for the Faculty Senate~~Academic Council~~.

### **d. Meetings and Rules of Order**

(1) The Faculty Senate~~Academic Council~~ meets on a Thursday (determined by the Faculty Senate~~Council~~) at 1:30 p.m., at least three times each semester and once during the summer term. Faculty Senate~~Council~~ members shall be relieved from other time-conflicting duties, and this time is considered to be a part of their full-time effort.

(2) Agenda of the Faculty Senate~~Academic Council~~ meetings are distributed to all faculty members no later than one week in advance of the meetings.

(3) Meetings of the Faculty Senate~~Academic Council~~ are conducted in accordance with Robert's Rules of Order. Should a conflict arise among Robert's Rules of Order, the Bylaws of the General Faculty, and the Procedural and general Resolutions for the Faculty Senate~~Academic Council~~, the order of precedence shall be first the Bylaws, second the Procedural and general Resolutions, and then Robert's Rules of Order.

(4) ~~Any member of the General Faculty has the right to attend meetings of the Faculty Senate~~Academic Council meetings are open to the public, but only the members are entitled to vote.~~but is not entitled to vote.~~

(5) Two-thirds of the voting membership of the Faculty Senate~~Academic Council~~ constitutes a quorum.

(6) The effective date of all actions is thirty (30) days after the action has been communicated to the faculty, unless four-fifths of the Faculty Senate~~Academic Council~~ members approve a motion that an action become effective immediately or unless action to veto or amend is initiated by the General Faculty within the 30 day period. No action taken by the Faculty Senate~~Academic Council~~ shall be implemented prior to its certification at a meeting of the General Faculty if a petition to veto or to amend such action is submitted to the Chancellor by more than ten percent of the members of the General Faculty.

(7) **Special Meetings** -- Special Meetings are called upon the request of the President of the University; of the Chancellor; of the President of the Faculty Senate~~Academic Council~~; and, by written petition of five (5) percent of the members of the Faculty Senate~~Academic Council~~.

(a) All special meetings shall be called within ten (10) school days after the request is presented to the President of the Faculty Senate~~Academic Council~~.

(b) Only topics designated in the call for a special meeting may be discussed or acted upon at said meeting.

#### **e. Delegation of Authority**

(1) Since the authority of the Faculty Senate~~Academic Council~~ is delegated to it by the General Faculty, it is subject to over-rule by the General Faculty.

(2) All authority delegated by the Faculty Senate~~Academic Council~~ to committees or individuals is subject to revocation by the Faculty Senate~~Academic Council~~.

(3) Standing Committees of the General Faculty shall report to the Faculty Senate~~Academic Council~~ at regular meetings upon one week's notification by the President or President-Elect of the Faculty Senate~~Academic Council~~.

#### **5. Standing Committees**

a. Standing Committees report to ~~and through~~ the Faculty Senate~~Academic Council~~. Standing Committees report through the Faculty Senate unless otherwise provided for in these Bylaws. These committees formulate and recommend actions and policies in the assigned area of each. Authority to act is limited to the specific functions for which this power is delegated in the following sections of these Bylaws or the functions prescribed by the Board of Curators in their Rules and Regulations.

b. Each Standing Committee prepares an annual report to be distributed to all faculty members.

c. A faculty member shall serve on no more than two Standing Committees, excluding the Rules, Procedures and Agenda (RP&A) committee at the same time. If, ~~by chance,~~ any department~~school or college~~ lacks sufficient faculty for representation on all Faculty Senate~~Academic Council~~ committees, that ~~department~~school or college may select representatives to serve on committees of its choice until such time as the number of faculty increases to the point where the ~~department~~school or college can be represented

on all committees. All full-time students in good standing are eligible to serve on committees.

d. Whenever possible, Standing Committees shall organize prior to September 1 and be responsible for their duties from September 1 through August 31 of the following year.

e. The Chancellor may appoint one non-voting member to any Standing Committee, for a one-year term.

f. Chairs of standing committees shall be tenured faculty. ~~Deans, Associate or Assistant Deans, and~~ Department chairpersons, and other persons who devote 50% or more of their time to administrative duties shall not be eligible to serve as standing committee chairs.

g. The Rules, Procedures and Agenda (RP&A) committee has the right to call a meeting of any standing committee. Upon a determination by RP&A that a standing committee is not acting in a timely manner on an issue ~~it has~~~~they have~~ been asked to address, RP&A can call a meeting of the committee and appoint an ad hoc chair for that meeting.

h. Judicial committees are not subject to the provisions applicable to standing committees.

## **6. Faculty Standing Committees**

### **a. Academic Freedom and Standards Committee**

(1) This committee is concerned with the academic freedom of faculty and promoting academic excellence. It recommends and reviews policies concerning requirements for admission, graduation, and academic standards.

(2) Each Department may nominate one faculty member for service on the Academic Freedom and Standards committee. The Faculty Senate will select from the nominees eight (8) faculty to serve on the committee. ~~The committee consists of one faculty member elected from and by each school or college, and four elected from and by the General Faculty.~~ Members serve a ~~two~~2-year term with approximately one half elected each year.

### **b. Administrative Review Committee**

(1) This committee sets policies and procedures for review of campus administrators. The committee recommends the evaluation questionnaires and a plan/schedule for conducting reviews to the ~~Faculty Senate~~Academic Council. The committee conducts the reviews; oversees the sending of the evaluation forms to the evaluating persons; oversees the collection and collation of the resulting evaluations; and, along with the officers of the ~~Faculty Senate~~Academic Council, reviews and forwards the results of the evaluations.

(2) The committee consists of ~~four~~ four (4) ~~representatives~~a representative from each school and college nominated by the Rules, Procedures and Agenda committee (with the possibility of nominations from the floor) and elected by a vote of the ~~Faculty Senate~~Academic Council. Committee members serve for ~~two~~ 2-years, terms to be staggered with the election of two members each year, and shall be full-time, tenured faculty members with an administrative component of 50% or less.

### **c. Budgetary Affairs Committee**

(1) This committee makes recommendations to the ~~Faculty Senate~~Academic Council, the Chancellor and the Vice-Chancellor of Administrative Services on matters concerning:

the long-range vision of the campus; plans to fulfill this vision; and budgetary matters as a consequence of the vision. This includes, but is not limited to: all matters of a budgetary nature; and policies and priorities for strategic action plans. ~~It~~ The Committee studies the Campus budget, keeps informed of its preparation and status, and consults with and advises the Chancellor on all matters pertaining to budgetary affairs.

(2) Each Department may nominate one faculty member for service on the Budgetary Affairs committee. The committee consists of two faculty members elected from and by the Faculty SenateAcademic Council, ~~two~~ four (4) elected by the Faculty Senate from the Department nominations, from and by each school and college, two from and by the Graduate Faculty, one student chosen by the Student Council, and one administrative member appointed by the Chancellor. Elected members serve for ~~two~~ 2-year term, one half elected each year.

#### **d. Information Technology / Computing Committee**

(1) This committee advises the Provost and the Chief Information Officer ~~in~~ on the formulation and implementation of information technology (IT) and computing activities on campus. These activities include but are not limited to networking, email, academic computing, electronic data bases, web publishing, distance learning, electronic classrooms, academic software and procurement of equipment for faculty, student and staff desktops and campus IT/computing facilities.

(2) The committee consists of one member elected from each academic department desiring representation, two students selected by the Student Council, and one graduate student selected by the Council of Graduate Students. The Provost, the Vice Chancellor for Administrative Services and the Chief Information officer serve as ex officio members. Faculty members serve for a ~~three~~ 3-year term with approximately one third of the membership elected each year. Subcommittees may be formed by the committee to assist in timely decision making.

#### **e. Campus Curricula Committee**

(1) This committee acts as advisor and coordinator in regard to curricula proposals and all course offerings. Proposals for curricula and course changes shall be submitted to the Campus Curricula Committee via the Dean of the School or College. Discipline Specific Curricula Committee (DSCC) associated with the proposal. The Dean's DSCC recommendation shall be submitted with the proposal. Special Programs are not normally associated with a DSCC, and may submit proposals directly to the Campus Curricula Committee. Within two weeks after receipt of the proposal, the Curricula Committee shall distribute copies to all departments. Counter proposals submitted to the committee by the department school or college representative of the concerned department should be considered when the original proposals are discussed. The recommendation of the committee shall be forwarded to the Faculty SenateAcademic Council for appropriate action.

(2) ~~The Academic Council~~ Campus Curricula Committee will submit proposals for new graduate programs or significant changes to existing graduate programs to the Graduate Faculty for approval prior to being considered by the Faculty SenateAcademic Council.

(3) The committee consists two faculty members elected from and by the Faculty SenateAcademic Council, ~~one~~ elected from and by each school and college the program



leader of each DSCC and one member elected by the Curricula Committee of the Graduate Council. Elected members serve a ~~two~~2-year term with approximately one half elected each year.

**f. Discipline Specific Curricula Committees**

(1) The campus shall create one, or more, Discipline Specific Curricula Committees (DSCC). These committees will assist in coordinating curricula proposals generated by the degree programs specified in their charters.

(2) The DSCC shall be created, administered, and maintained, using the same procedures as Special Programs (described in these bylaws), with the following exceptions:

(a) Every DSCC shall be identified by a discipline name, eg. Arts, Science, Engineering, Management.

(b) Every degree program shall be associated with one, and only one, DSCC. This association will be stated in the charter of the DSCC, and may be altered only with the approval of the Provost and the Faculty Senate.

(c) Each DSCC program leader shall be elected from, and by, its members. The DSCC program leader shall be an ex-officio, voting, member of the Campus Curricula Committee.

**gf. Facilities Planning Committee**

(1) This committee studies and makes recommendations to the ~~Faculty Senate~~Academic Council and the Chancellor concerning policies and priorities for physical facilities, including buildings, equipment, and land acquisition and use. The committee also makes recommendations to the ~~Faculty Senate~~Academic Council on policy pertaining to parking, security, traffic and matters affecting campus safety.

(2) Each Department may nominate one faculty member for service on the Facilities Planning Committee. The committee shall consist of three faculty members elected from and by the ~~Faculty Senate~~Academic Council; ~~four~~ (4) elected by the Faculty Senate from the list of department nominees ~~one elected from and by each school and college~~; one administrative member appointed by the Chancellor; one student selected by the Student Council, and one graduate student selected by the Council of Graduate Students. Faculty members shall serve for a ~~two~~2-year term with approximately one half selected each year.

**hg. Honorary Degrees Committee**

(1) This committee reviews recommendations from the faculty for Honorary Degrees and submits its selection to the Board of Curators after a three-fourths vote of approval of the General Faculty. These recommendations with supporting information must be submitted to the committee chairman. Only ~~these~~those persons thus recommended shall be considered by the committee. All recommendations shall be held in strict confidence, and public announcements will be made only by the Board of Curators or its representatives.

(2) Each Department may nominate one faculty member for service on the Honorary Degrees committee. The committee consists of the Provost and four (4) elected by the Faculty Senate from the list of department nominees. ~~one member elected from and by each school and college.~~ Elected committee members serve ~~one~~ 1-year terms.

**ih. Library and Learning Resources Committee**

(1) This committee makes recommendations to the ~~Faculty Senate~~ Academic Council and appropriate administrative officials with respect to the administration of the Library and Learning Resources facilities and on rules governing use by students, faculty, and others. It shall consider all problems concerning the operation of the Library and its facilities.

(2) Each Department may nominate one faculty member for service on the Library and Learning Resources committee. The committee consists of eight (8) elected by the Faculty Senate from the list of department nominees ~~two members elected from and by each school or college~~ with each faculty member serving a ~~two~~ 2-year term with approximately one half to be elected each year; one graduate student selected by the Council of Graduate Students and one undergraduate student to be selected by the Student Council; and the Director of Library and Learning Resources.

**ji. Personnel Committee**

(1) This committee recommends to the ~~Faculty Senate~~ Academic Council general policies on the conditions of appointment, employment and retirement of faculty and administrative officers.

(2) Each Department may nominate one faculty member for service on the Personnel committee. The committee consists of two faculty members elected from and by the Faculty Senate ~~Academic Council~~, four (4) elected by the Faculty Senate from the list of department nominees ~~one member elected from and by each school or college~~, one member elected from and by the Graduate Faculty, one member selected by the Staff Council, and one administrative member appointed by the Chancellor. Elected members serve a ~~two~~ 2-year term with approximately one half elected each year.

**kj. Public Occasions Committee**

(1) This committee makes general plans for University-sponsored assemblies, programs and public occasions such as University Day, Parents Day, Homecoming, and Commencement. It recommends policy for faculty and student programs, guest speakers and ad hoc events. The committee may appoint special subcommittees and delegate its responsibilities in order to assure appropriate preparation and execution of these activities. It also supervises a calendar of events for the campus and approval of intercollegiate athletic schedules.

(2) The committee consists of six members elected from and by the General Faculty, one administrator appointed by the Chancellor, three students selected by the Student Council, and one student selected by the Council of Graduate Students. Faculty members shall serve for a ~~two~~ 2-year term with one half elected each year.

**lk. Rules, Procedures and Agenda Committee**

(1) This committee oversees the application of these Bylaws and any Rules and Regulations of bodies established by them. It may investigate and make

recommendations on procedure to the Faculty Senate~~Academic Council~~. It may also prepare drafts for amending the Bylaws.

(2) The committee is responsible for the conduct and supervision of Faculty Senate~~Academic Council~~ and General Faculty elections. It shall receive nominations from the faculty for elections, adding, but not deleting, names as necessary to provide candidates for all offices and committees and shall obtain the consent of all nominees. The committee shall also be responsible for submitting slates of candidates nominated for serving on the standing committees for Faculty Senate elections.

(3) It is the responsibility of this committee to prepare the agenda for Faculty Senate~~Academic Council~~ meetings and to assist the Secretary~~Vice-Chairman~~ of the General Faculty in the preparation of the agenda for General Faculty meetings.

(4) The voting members of the committee consists of the Past President, the President, President-Elect, Secretary, and Parliamentarian of the Faculty Senate~~Academic Council~~; one graduate student selected by the Council of Graduate Students; one student selected by the Student Council; and the chairs of the following standing committees: Academic Freedom and Standards, Budgetary Affairs, Curricula, Facilities Planning, Personnel, Student Affairs and Tenure. Other Faculty Standing Committee chairs are ex-officio non-voting members.

(5) The Past President chairs this committee. If the Past President is unable to serve, the committee will elect a chair.

#### **m. Student Affairs Committee**

(1) This committee makes recommendations to the Faculty Senate~~Academic Council~~ regarding relationships between students and UMR, including, but not limited to, the following: student-teacher relationships; student-administration relationships; scheduling of classes and examinations; budgeting and distribution of funds paid by students for student activities; rules and regulations pertaining to student housing, health and services for students, University counseling services, departmental advisement practices; rules and regulations pertaining to student organizations, including varsity and intramural athletics; oversight~~recognition~~ and discipline of student organizations, including review of all sanctions, withdrawals or denials; operations of the University Center; student publications; and civil rights of all students. The committee may appoint subcommittees and delegate its responsibility to them. Members of such subcommittees need not be members of the Faculty Senate~~Academic Council~~ or the Student Affairs Committee.

(2) Each Department may nominate one faculty member for service on the Student Affairs committee. The committee consists of four (4) elected by the Faculty Senate from the list of department nominees ~~one member elected from and by each school or college, one elected from the Faculty Senate~~~~Academic Council~~; four students selected by the Student Council; one student selected by the Council of Graduate Students. The Director of Student life, the Vice Chancellor for Student Affairs, and the Registrar are ex-officio non-voting members of the committee.; ~~and one non-voting administrative member appointed by the Chancellor. Faculty members serve a two-year term.~~

#### **n. Student Awards and Financial Aids Committee**

(1) This committee recommends policies regarding the administration of student awards and financial aids, including loans and scholarships, consistent with specifications of the

respective donors and grantors. It shall be the duty of the committee to consider and rule on appeals that may be submitted by students regarding awards and financial aids.

(2) The committee consists of three faculty members elected from and by the Faculty Senate~~Academic Council~~, two faculty elected from and by the General Faculty, two undergraduates selected by the Student Council, one graduate student selected by the Council of Graduate Students, the Provost, the Director of Student Financial Aid, and such other appointees as the Chancellor names. All members have voice and vote when considering new or revised policy. When considering student appeals, only the elected faculty members, the Provost and the Director of Student Financial Aid have voice and vote. At the request of the appealing student, the undergraduate members--for an undergraduate-- or graduate student member--for graduate students--may participate with voice and vote. Faculty are elected for ~~two~~2-year terms, students are selected annually.

#### **on. Tenure Committee**

(1) This committee is concerned with the tenure rights of faculty. It functions according to the principles stated in the Academic Tenure Regulations adopted by the University of Missouri Board of Curators. It may also make recommendations for policy changes through the Faculty Senate~~Academic Council~~ to the Board of Curators. It serves as the hearing committee for cases of research dishonesty.

(2) This committee consists of one member from each academic department whose faculty is eligible for tenure. The faculty of each academic department shall, during the second semester of each academic year, elect one of its eligible faculty to membership on the committee to serve for the following academic year, and also elect an alternate member who shall serve whenever the regular committee member is unable to serve.

(3) Members shall be elected from the eligible Professors on continuous appointment. If there are no eligible Professors within a department, then the members shall be elected from the eligible Associate Professors. ~~Deans, Associate or Assistant Deans~~Vice Provosts, department chairpersons, and other persons who devote 50% or more of their time to administrative duties shall not be eligible for membership on the committee.

(4) During the second semester of each academic year, the committee shall place the names of three of its members in nomination before the General Faculty for election to ~~two~~2-year terms on the University-Wide Tenure Committee. In the general election, each General Faculty member shall vote for two of the nominees. The nominee receiving the largest number of votes shall fill the position of member of the committee. The nominee receiving the next largest number of votes shall serve as the alternate member.

### **7. Judicial Committees**

#### **a. Grievance Hearing Panel**

(1) This panel is concerned with the fair and equitable resolutions of faculty grievances with the University. It functions according to the principles stated in the Academic Grievance Procedure adopted by the University of Missouri Board of Curators. It may also make recommendations for policy changes through the Faculty Senate~~Academic Council~~ to the Board of Curators.

(2) This panel consists of thirty faculty members, fifteen selected by the Faculty Senate~~Academic Council~~ and fifteen appointed by the Chancellor. Members will serve a

~~three~~3-year term. One third of the panel will be chosen by the Faculty Senate~~Academic Council~~ and the Chancellor each year.

**b. Parking, Security and Traffic Committee**

(1) The committee oversees application of rules and regulations concerning parking and traffic. It functions according to the principles stated in the Board of Curators' description of the UMR Traffic Regulations.

(2) Each Department may nominate one faculty member for service on the Parking, Security and Traffic committee. The committee shall be composed of ~~three~~ (3) elected by the Faculty Senate from the list of department nominees ~~three faculty members elected from each school or college~~ for a ~~two~~2-year term with one half being elected each year, two undergraduate students selected by the Student Council, one graduate student selected by the Council of Graduate Students, one member selected by Staff Council, and the Director of the Physical Plant. Student terms shall be for one year. The Director of the University Police shall be a member ex officio. Two additional committee members may be appointed by the Chancellor. The Chancellor shall designate one of the faculty committee members as chairperson.

**c. Student Conduct Committee**

(1) This committee conducts hearings and makes dispositions under the Rules and Procedures in Student Conduct Matters as provided in Section 200.020 of the Collected Rules and Regulations of the University of Missouri. It may also provide aggregate information regarding its decisions to the Faculty Senate~~Academic Council~~, and make recommendations on policies relating to student discipline to the Faculty Senate~~Academic Council~~ for forwarding to the Board of Curators.

(2) The committee consists of members as prescribed by the Board of Curators. All members of the committee shall have the same voting privileges and responsibilities. Faculty members serve ~~two~~2-year terms with approximately one half elected each year.

**d. Student Scholastic Appeals Committee**

(1) This committee establishes procedures for individual student scholastic appeals. The committee shall consider and rule on all individual cases of appeal relating to student scholastic performance, including but not limited to: graduation with honors, probation and dropping from school, readmission after being dropped for scholastic reasons, scholastic deficiencies and evaluation of credit and transfer of credits, grades and honor points from other campuses to UMR. It serves as an appeal board for cases of students on scholastic probation who are involved in the activities of organizations.

(2) The committee shall consist of eight members: three faculty members elected from and by the Faculty Senate~~Academic Council~~, two elected from and by the General Faculty, two student members selected by the Student Council, and one student selected by the Council of Graduate Students. Faculty members serve a ~~two~~2-year term with approximately one half elected each year. Student members serve a ~~one~~1-year period.

**e. Tuition and Residence Committee**

(1) This committee assists the Cashier, when requested, in determining the residence status of a student relative to the required non-resident tuition fees established under the

applicable regulations of the Board of Curators. The committee also considers properly filed appeals by students taking exception to the Cashier's ruling relative to their residence or tuition status.

(2) The committee consists of three faculty members and three administrative members appointed for a ~~one~~ 1-year term by the Chancellor, who shall designate one member as Chairperson.

### **8. Special Committees**

a. Special Committees addressing issues not presently the purview of Faculty Standing Committees or Judicial Committees may be authorized from time to time, as needed, by the Chancellor, General Faculty, Faculty Senate~~Academic Council~~, schools, colleges, and departments. However, when the faculty or the administration establishes any committee having campus-wide responsibilities or authority, they shall file with the Secretary of the Faculty Senate~~Academic Council~~ a statement specifying the responsibilities, authority and composition of the committee, together with a list of current members. A catalog of such existing committees shall be circulated to the faculty annually by the Secretary of the General Faculty.

b. When deemed appropriate by the Chancellor, by the General Faculty, or by the Faculty Senate~~Academic Council~~ reports of Special Committees shall be distributed to all members of the General Faculty. Each Special Committee prepares an annual report to be made available to all faculty members.

c. Whenever possible, Special Committees shall organized prior to September 1 and be responsible for their duties from September 1 through August 31 of the following year.

### **E. STUDENT REGULATIONS**

1. The Student Council is the recognized spokesman for the undergraduate students to the Faculty, and the Council of Graduate Students of the University of Missouri-Rolla for the graduate students.

2. Rules and disciplinary regulations which apply to students and the "University of Missouri Rules of Procedure in Student Disciplinary Matters" shall be printed in the "Manual of Information" and distributed to all students.

#### **3. Student Participation in Academic Governance**

a. Students shall be eligible to serve on the Faculty Senate~~Academic Council~~ and/or on committees as designated by these Bylaws.

b. Individual students and student organizations may recommend changes in policies governing students to the appropriate committee. These recommendations, when submitted in writing, must be considered promptly by the committee, and the students informed in writing of the disposition of the recommendations.

**F. RULES AND REGULATIONS** -- All committees and any other permanent body established by these Bylaws, shall make rules and regulations necessary for the successful operation of their organizations by at least a simple majority of the body. Copies shall be filed with the Secretary of the General Faculty for general availability.

**G. AMENDING THE BYLAWS** -- Amendments may be proposed by twenty (20) members of the General Faculty by submitting them to the Rules, Procedures, and

Agenda Committee. This committee must transmit the proposal to the General Faculty within fifteen (15) school days and then include the proposal in the agenda of the next General Faculty meeting. Voting on the proposed amendment shall be by a mail ballot and shall take place within fifteen (15) school days after completion of its consideration at a meeting of the General Faculty. A two-thirds (2/3) majority of those voting shall be required for the adoption of the proposed amendment. If adopted, the amendment will become effective immediately upon approval by the Board of Curators.

**H. PUBLICATION OF THE BYLAWS --** At the beginning of each fall semester the Secretary of the General Faculty shall make a current edition of these Bylaws available to each faculty member, upon request. A list of the names of the officers of the General Faculty and of the officers and members of the Faculty Senate~~Academic Council~~ and all Standing Committees established by the Bylaws shall be distributed to each faculty member. Current copies of the Bylaws shall be made available to deans and department chairs for distribution to prospective faculty members.

## MAJOR CHANGES TO THE FACULTY BYLAWS

June 2007

General Description. The Faculty Bylaws of the University of Missouri-Rolla constitute one chapter in the Collected Rules and Regulations, approved by the Curators of the University of Missouri System. The Collected Rules and Regulations govern the University. An ad-hoc committee was charged to draft changes to the Faculty Bylaws to reflect the new structure of the campus that will be without schools, colleges or academic deans. To revise the Faculty Bylaws, a group of 20 members of the General Faculty must submit the [recommended / proposed] changes to the Rules, Procedure and Agenda Committee. These changes will then be considered by the General Faculty at a General Faculty meeting, and voting will be conducted by a mail ballot after the meeting. University Legal will need to examine the proposed changes, and if there are significant {problems/questions/discrepancies/errors} that require changes, another General Faculty meeting and another vote may be needed. Ultimately the changes must be approved by the Board of Curators.

The responsibilities granted in the Bylaws to the Deans needed to be reassigned. The RP&A Committee directed the ad-hoc committee to move those responsibilities to the Departmental level, when possible, but some had to be moved to the Provost level.

The ad-hoc committee is proposing to change the Academic Council to a Faculty Senate. Except for UMC (which has a Faculty Council), the other Missouri Public Universities have Faculty or University Senates as their faculty governance bodies. The voting members of the Faculty Senate will be elected by the academic departments, as they are currently selected for the Academic Council. All faculty, including tenured/tenure-track and non-tenure track faculty, are eligible to serve on the Faculty Senate. Ex officio, non-voting members of the Faculty Senate will consist of the Provost, Vice Chancellor for Student Affairs, Registrar, Staff Council President, Student Council President and Vice President, and Council of Graduate Students President.

Other changes, identified as being necessary to bring the Bylaws into conformance with current campus policy and procedures, required the significant changes to sections of the Faculty Bylaws noted below.

1. Section C. General Faculty. Membership in the General Faculty includes all tenured, tenure track and non-tenure track full-time faculty and staff members holding the rank of instructor or above, the President, the Chancellor, the Provost, the Registrar, the Director of the Library, and any other person who may be elected by a two-thirds majority vote of the General Faculty. It is intended to be an inclusive group.

Voting in the General Faculty is restricted to tenured and tenure-track faculty. All faculty and administrators who hold a tenured or tenure-track position will be eligible to vote.

2. Section D.1.c. Currently, when a department wishes to offer a new course or make a change in its curriculum, the proposal goes to the Dean's office for approval, and is then sent to the Curricula Committee. In the new structure, departments will submit proposals for new courses or changes in the curriculum to a Discipline Specific Curricula Committee (DSCC). The DSCC will review the proposal and make its recommendation to the Curricula Committee.



3. Section D.2. A section titled “Special Programs” was added to allow the University to offer multi-disciplinary or other special programs. Examples of such programs are: Freshman Engineering, Residence College courses, and the Global Studies minor being proposed. In the current Faculty Bylaws, courses, degrees, and certificates are offered by academic departments; there is no structure for offering campus-wide multidisciplinary courses (like the Residential College courses), multidisciplinary minors (like Global Studies) or other special programs (like Freshman Engineering). The purpose of this section is to provide a structure for the campus to offer courses and programs such as these.

Special programs are authorized to offer courses, minors, and certificates. Special programs may not offer Bachelors, Masters or PhD degrees; all Bachelors, Masters and PhD degrees must be offered by academic departments. The Provost is responsible for identifying and proposing that Special Programs be formed. Special Programs must be approved by the Faculty Senate. Each Special Program is governed by a Board of Program Representatives, who are ranked faculty elected by the departments involved with the Special Program. The Board of Program Representatives will elect a Director for the Special Program (normally from their ranks). Once the Special Program is in place, the Director will be allowed to submit proposals for courses and/or curriculum to the Curriculum Committee. The Curriculum Committee will then follow the same procedures as if an academic department had submitted a proposal for courses or curriculum.

4. Section D.2. The section on Schools and Colleges was deleted. [With the renumbering that resulted from the deletion, the Special Programs section above ended up with the same section number in the document.]

5. Section D.4.b.(4) and (5). Voting membership in the Faculty Senate is restricted to the faculty members that are elected by the academic departments as representatives of the Faculty Senate. All faculty, including tenured/tenure-track and non-tenure-track faculty are eligible to serve on the Faculty Senate. Ex officio non-voting members of the Faculty Senate consist of the Provost, Vice Chancellor for Student Affairs, Registrar, Staff Council President, Student Council President and Vice President, and Council of Graduate Students President.

6. Membership of Standing Committees. Membership of several of the standing committees currently requires faculty from each of the Schools/Colleges. In some cases under the new structure, allowing one representative from each department would make the committees too large. It is proposed to allow each department to nominate members to serve on the standing committees. The Rules, Procedure and Agenda Committee will develop a slate of nominees, and the appropriate number of representatives for each Standing Committee will be selected by the Faculty Senate.



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Memo To: Academic Council  
From: UMR Campus Curriculum Committee Meetings  
RE: April 24, 2007 Meeting

**The UMR Campus Curricula Committee recommends to the Academic Council that the curriculum changes and degree proposals on the following DC forms be approved.**

**Approved DC forms:**

DC 0229, College of Arts & Sciences, Technical Communication. A proposal to modify the current curriculum for the BS in Technical Communication by replacing the current specific 36 hours of Interdisciplinary requirements, approved effective Fall 2007.

DC 0230, College of Arts & Sciences, Elementary Education, approved effective Fall 2008. A proposal to create a BS degree in Elementary Education.

DC 0236, College of Arts & Sciences, Pre-Law Minor, approved effective FS2008. A proposal to create a new minor under the History and Political Science department called Pre-Law.

DC 0237, College of Arts & Sciences, Chemistry, approved effective FS2008. A proposal to modify the current curriculum for the BS in Chemistry by changing the number of credit hours for Chem 221 and Chem 223 and elective hours to keep total degree hours the same.

DC 0238, College of Arts & Sciences, Chemistry Biochemistry Emphasis Area, approved effective FS2008. A proposal to modify the current curriculum for the BS in Chemistry Biochemistry Emphasis Area by changing the number of credit hours for Chem 221 and Chem 223 and elective hours to keep total degree hours the same.

DC 0239, College of Arts & Sciences, Chemistry Pre-medicine Emphasis Area, approved effective FS2008. A proposal to modify the current curriculum for the BS in Chemistry Pre-medicine Emphasis Area by changing the number of credit hours for Chem 221 and Chem 223 and elective hours to keep total degree hours the same.

DC 0240, College of Arts & Sciences, Chemistry Polymer & Coatings Science Emphasis Area, approved effective FS2008. A proposal to modify the current curriculum for the BS in Chemistry Polymer & Coatings Science Emphasis Area by changing the number of credit hours for Chem 221 and Chem 223 and elective hours to keep total degree hours the same.



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DC 0236, College of Arts & Sciences, Pre-Law Minor, approved effective FS2008. A proposal to create a new minor under the History and Political Science department called Pre-Law.

DC 0237, College of Arts & Sciences, Chemistry, approved effective FS2008. A proposal to modify the current curriculum for the BS in Chemistry by changing the number of credit hours for Chem 221 and Chem 223 and elective hours to keep total degree hours the same.

DC 0238, College of Arts & Sciences, Chemistry Biochemistry Emphasis Area, approved effective FS2008. A proposal to modify the current curriculum for the BS in Chemistry Biochemistry Emphasis Area by changing the number of credit hours for Chem 221 and Chem 223 and elective hours to keep total degree hours the same.

DC 0239, College of Arts & Sciences, Chemistry Pre-medicine Emphasis Area, approved effective FS2008. A proposal to modify the current curriculum for the BS in Chemistry Pre-medicine Emphasis Area by changing the number of credit hours for Chem 221 and Chem 223 and elective hours to keep total degree hours the same.

DC 0240, College of Arts & Sciences, Chemistry Polymer & Coatings Science Emphasis Area, approved effective FS2008. A proposal to modify the current curriculum for the BS in Chemistry Polymer & Coatings Science Emphasis Area by changing the number of credit hours for Chem 221 and Chem 223 and elective hours to keep total degree hours the same.

DC 0250, SoMEER, Geology and Geophysics, approved effective Fall 2007. A proposal to modify the current curriculum for the BS in Geology and Geophysics.

**The UMR Campus Curricula Committee recommends to the Academic Council that the course changes on the following CC forms be approved.**

**Approved CC forms:**

CC 7199, IDE 203, Technology in Elementary Education. New course approved effective Spring 2008.

Catalog Description: This course teaches elementary education majors about technology and engineering concepts suitable for the elementary classroom. Topics covered include technology in daily life, research in technology, measurements, and using technology to solve problems. The course will emphasize problem solving based on multiple parameters (safety, cost, etc.).

Credit Hours: 2 hour lecture

Prerequisites: Math 2 or 4



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CC 7204, Chemistry 221, Organic Chemistry I. The following changes are approved effective FS2008.

Catalog Description – Proposed: This course consists of four parts: 1) Structure, bonding, and nomenclature; 2) hydrocarbons (alkanes, alkenes, and alkynes), conjugated systems, ultraviolet and visible spectroscopy, stereochemistry, resonance, and molecular orbital theory; 3) substitution and elimination reactions, and 4) identification of organic compounds via infrared and NMR spectroscopy.

Credit Hours – Present: 3 hour lecture

Proposed: 4 hour lecture

Prerequisites – Present: Chem 3 or 8

Proposed: Chem 1, 2, 3; or Chem 5

CC 7205, Chemistry 225, Bioorganic Chemistry I. Course deletion approved effective FS2008.

CC 7206, Chemistry 223, Organic Chemistry II. The following changes are approved effective FS2008.

Catalog Descriptions – Proposed: This course consists of three parts. The first part will cover aromaticity and reactions of aromatic compounds, the second part will cover carbonyl compounds, amines and their reactions, and the third part will cover bioorganic compounds that include carbohydrates, aminoacids, peptides, proteins, lipids, nucleosides, nucleotides, and nucleic acids.

Credit Hours – Present: 3 hour lecture

Proposed: 4 hour lecture

CC 7207, Chemistry 227, Bioorganic Chemistry II. Course deletion approved effective FS2008.

CC 7208, Math 437, Finance 437, Financial Mathematics II. New course approved effective FS2007.

Catalog Description: Continuation of Math 337. Topics include martingales and measures, stopping times, discrete and continuous time finance, Brownian motion, Itô calculus, stochastic differential equations, Black-Scholes-Merton formula, numerical procedures.

Credit Hours: 3 hour lecture

Prerequisites: Math 337 or Econ 337

CC 7209, History 228, History of the American Pacific. New course approved effective FS2007.

Catalog Description: This course examines United States expansion into the Pacific as an extension of 19<sup>th</sup> century Manifest Destiny. Emphasizing American Pacific possessions, the course includes a historical, political, geographical, and cultural look at the islands from 1800 to the present.



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Credit Hours: 3 hour lecture

Prerequisites: Hist 175 or Hist 176 or Hist 112

CC 7224, Metallurgical Engineering 367, Introduction to Particulate Materials. The following changes are approved effective FS2007.

Catalog Description – Proposed: Powder metallurgy and ceramic components, filters, catalysts, nanomaterials, vitamins and more depend strongly on particulate, or powder, characteristics and processing. Aspects of powder fabrication, characterization, safety, handling, component fabrication, secondary processing, and applications will be covered.

CC 7225, Geology 113, Mineralogy and Crystallography. The following change is approved effective FS2007.

Credit Hours – Present: 4 hour lecture, 1 hour lab, Total: 5

Proposed: 3 hour lecture, 1 hour lab, Total: 4

CC 7226, Geology 130, Igneous and Metamorphic Petrology. The following changes are approved effective FS2007.

Catalog Description – Proposed: A comprehensive study of megascopic and microscopic characteristics of igneous and metamorphic rocks. Fundamental theories for their origin are presented. The class includes a trip to examine these rock types in the field.

Credit Hours – Present: 4 hour lecture, 1 hour lab, Total: 5

Proposed: 3 hour lecture, 1 hour lab, Total: 4

CC 7227, Electrical Engineering 348, Computer Engineering 348, Systems Engineering 348, Wireless Networks. New course approved effective Summer 2007.

Catalog Description: Introduction to wireless communications & networking. Topics include transmission fundamentals, wireless channel, coding techniques & error control, satellite & cellular networks, cordless systems, mobile IP & management, multiple access techniques & wireless protocols, wireless LAN, IEEE 802.11, & adhoc & sensor networks.

Credit Hours: 2 hour lecture, 1 hour lab, Total: 3

Prerequisites: Hardware competency, EE 243 or CpE 213 & graduate standing

CC 7228, IDE 224, SDELC Design. New course approved effective FS2007.

Catalog Description: Students will participate in a significant design activity as part of one of the experiential learning design team projects. Design activity will be reported and assessed at the end of the semester through a design report and oral presentation.

Credit Hours: 1 hour lab

Prerequisites: Sophomore (or greater) standing and membership in an experiential learning design team



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CC 7229, IDE 233, SDELC Leadership. New course approved effective FS2007.

Catalog Description: Students will participate in open lecture on team based management and leadership as it pertains to ongoing project activities. Project activity reports will be generated using real project data and assessed at the end of the semester through a project master plan and oral presentation.

Credit Hours: .5 hour lecture, .5 hour lab, Total: 1

Prerequisites: Sophomore (or greater) standing and leadership role in an experiential learning design team or nomination by an experiential learning team advisor.

CC 7230, Civil Engineering 317, Pavement Design. The following changes are approved effective SP2009.

Course Title – Proposed: Asphalt Pavement Design

Catalog Description – Proposed: Structural design of flexible pavements including loading characteristics, properties of pavement components, stress distribution, and the effects of climatic variables on design criteria.

Prerequisites – Present: Preceded or accompanied by Civ Eng 216

Proposed: Civ Eng 216

CC 7234, Technical Communication 493, Oral Examination. New course approved effective FS 2007.

Catalog Description: After completion of all other program requirements, oral examinations for on-campus M.S./Ph.D. students may be processed during intersession. Off-campus M.S. students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

Credit Hours: (IND 0.0)

Prerequisites: None

CC 7235, Geophysics 270, Introduction to Geophysics. New course approved effective FS2007.

Catalog Description: An introduction to a broad area of solid earth geophysics and exploration geophysics. Topics include plate tectonics, earthquake study, structure and dynamics of the Earth's deep interior, gravity, magnetism, heat flow, and geophysical exploration for natural resources.

Credit Hours: 3 hour lecture

Prerequisites: Math 8 & Geology 51

**For the information of the Academic Council, the following EC forms have been submitted by the University departments for an experimental course that will be offered in the near future.**



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**Approved EC forms:**

EC 1923, Statistics 301, Physics 301, Science Education & Quantitative Literacy for Middle School, approved effective Summer 2007.

Course Description: An integrated science-mathematics course for middle school teachers. Course covers selected science/mathematics topics/skills specified in Missouri standards for grades 6-8. Inquiry-based methods of teaching these topics in an integrated manner will be emphasized.

Credit Hours: 3 hour lecture

Prerequisites: Stat 305 or Stat 306 or Stat 307 or Physic 302 or Physic 303

Co-listing: Physics 301

EC 1935, Russian 201, Russian Phonetics and Intonation, approved effective Sp2008.

Course Description: Class will systematize students' knowledge of Russian phonetics and improve their pronunciation; develop basic transcription skills and facilitate comprehension of Russian speech at moderate and fast tempos. Special attention will be given to the interaction of Russian intonation and syntax.

Credit Hours: 2 hour lecture, 1 hour lab, Total: 3

Prerequisites: Russian 002

EC 1942, Mechanical Engineering 401, Viscoelasticity and Mechanics of Biological Tissues, approved effective Fall 2007.

Course Description: Biomechanics of single cells and tissues, characterization methods, and biomedical applications: a. Thermo-visco-elasticity of polymer chains/networks/membranes, b. Mechanics of a model cell, c. Cell-cell and cell-substrate adhesion, d. Multi-scaling of cell filaments/membranes/whole cell/ multi-cell aggregate/tissues, e. Tissue engineering and biomedical applications.

Credit Hours: 3 hour lecture

Prerequisites: IDE 110, ME 219, Math 204

EC 1943, Computer Science 301, Software Requirements Engineering, approved effective FS2007.

Course Description: Software Requirements Engineering (SRE) covers all the activities involved in discovering, analyzing, specifying and managing software requirements for a software system from multiple perspectives. In this course students will study how to elicit, analyze, specify, validate, and manage software requirements using advanced software requirements modeling methods, processes and tools.

Credit Hours: 3 hour lecture

Prerequisites: CS 206

EC 1947, Geophysics 201, Introduction to Geophysics. This course was approved as a new course on a CC form, see CC #7235.



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EC 1949, Nuclear Engineering 301, Applied Mathematics in Nuclear Engineering II, approved effective FS2007.

Course Description: Application of ordinary and partial differential equations in the solution of nuclear engineering problems, particularly with the neutron kinetics equations. Bessel's equation and special functions, eigenvalue problems, Green's function, integral methods and transformations.

Credit Hours: 3 hour lecture

Prerequisites: NE 303

EC 1950, Mechanical Engineering 301, Chemical Engineering 301, Ceramic Engineering 301, Biological Sciences 301, Mechanics of Biological Tissues, approved effective Fall 2007.

Course Description: This course will introduce the students to biomechanics of single cells and tissues, characterization methods, and biomedical applications. Topics include 1) Mechanics of a model cell, 2) Time and temperature dependent mechanical behavior of polymer chains and networks, 3) Multi-scaling of cell filaments, membranes, the whole cell, multi-cell aggregate and tissues, and 4) Biomedical applications.

Credit Hours: 3 hour lecture

Prerequisites: IDE 110, IDE 120, ME 219, Math 204

EC 1955, Art 101, Achieving a Life of Art, approved effective Fall 2007.

Course Description: Residential College course. An introduction to the profession and practice of art in its various forms.

Credit Hours: .5 hour lecture

Prerequisites: None

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J. Keith Nisbett, Chair  
UMR Campus Curricula Committee



## **FACILITIES PLANNING COMMITTEE**

### **(Report, Klaus Woelk)**

#### **Electric power issues:**

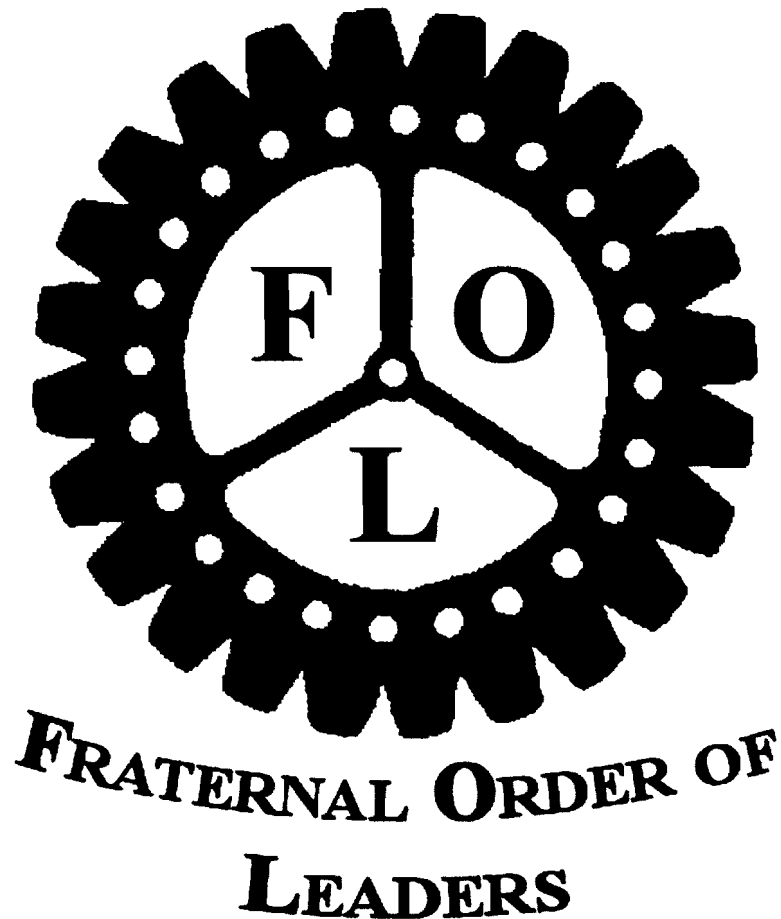
- Voltage variances can effect the operation of sensitive research and teaching instrumentation. Concerns range from instabilities of equipment to malfunctions or even hazards (such as reaching dangerously high temperatures when cooling systems are affected).
- During Febr./March 2007, insufficient voltage (e.g., 194 V instead of 208 V) was supplied from the new, leased transformer. The problem was fixed during a scheduled intentional power outage during spring break. A notification of this scheduled outage reached many faculty too late or not at all.
- In March 2007, RMU supplied the campus with low voltage because of power line construction in the vicinity of UMR. Faculty reported problems with research and teaching instrumentation and felt insufficiently informed.
- In purchasing the new transformers, UMR will ask for alternate bids that include tap changers that automatically manage high or low voltage condition.
  
- An effective notification procedure is desired when low-voltage or high-voltage conditions occur at  $\pm 4\%$  of nominal value (e.g., below 200 V or above 216 V for 208 V power lines).
- No effective monitoring procedure exists so far for the electrical power on campus. In the future, power plant operators should monitor voltage every two hours. Monitoring will be more frequent during voltage instabilities (low-voltage or high-voltage conditions). RMU generally notifies UMR when they sense a low voltage conditions.
- A procedure of notification is agreed upon:
  - Goal of this notification procedure is to protect sensitive research and teaching instrumentation, ensure smooth and stable operation of said instrumentation, and provide for sufficient time to execute protective procedures in case of power droops and outages.
  - Physical Facilities will be responsible for monitoring voltage during daytime hours. Regular monitoring period is 8:00 a.m. to 4:30 p.m.
  - Physical Facilities will immediately notify all faculty if electrical power instabilities are monitored.
  - Physical Facilities will further notify all faculty of scheduled power outages two week in advance or, in case of emergencies, as soon as possible.

**Motion:** Physical Facilities will be given access to the faculty list server for the purpose of e-mail notification of electrical power problems.

# CONSTITUTION OF THE FRATERNAL ORDER OF LEADERS

## Article I – Name and Objectives

- Section 1      The name of this organization shall be “Fraternal Order of Leaders” of the University of Missouri-Rolla, hereafter referred to as “Organization.”
- Section 2      The motto of this organization shall be: “Leadership on Campus, Service to the Community, and Fellowship to Each Other.”
- Section 3      The official insignia of this organization shall be the Fraternal Order of Leaders Cog.



## **Article II – Objectives and Purpose**

- Section 1      The objectives of the Fraternal Order of Leaders are:
- to recruit outstanding leaders of the UMR student body and to help mold them into exceptional leaders
  - to serve the students and campus of the University of Missouri-Rolla
  - to serve the community of Rolla and the Phelps county area through service projects and philanthropies
  - to promote a feeling of fellowship toward the members of this order
- Section 2      The purposes for which the Organization is to be organized shall be consistent with the educational aims and objectives of the University of Missouri–Rolla. No purpose or objective of the Organization shall be in conflict with applicable state or federal laws presently in force or hereafter. The Organization will abide by all university regulations.

## **Article III – Membership**

- Section 1      Membership in the organization shall be open to all University of Missouri-Rolla students, faculty, and staff members without regard to race, color, religion, gender, sexual orientation, national origin, age, or disability.
- Section 2      There shall be four classes of membership: Active, Alumni, Faculty and Honorary.
- a.      Active Members shall be bona fide students at the University of Missouri-Rolla.
  - b.      Alumni Members shall be those former Active Members who have left this institution.
  - c.      Faculty Members shall be those so designated by the active chapter who are faculty at the University of Missouri-Rolla.
  - d.      Honorary Members shall be those so designated by the active chapter who do not qualify for membership in the above categories.

Section 3 Requirements for Membership

- a. Students will be chosen for membership on the basis of their past performance as students at the University of Missouri-Rolla. Leadership roles at the University of Missouri Rolla, in the Rolla Community, Greek, and other organizations will be required for membership.
- b. All students will be subject to an interview by the chapter and shall complete the tasks deemed necessary for their acceptance into membership by the chapter and/or New Member Coordinator.
- c. Active membership shall be limited to students who completed a minimum of 50 hours and at least one full year on a college campus.
- d. All members must be elected by a 2/3 vote of those members present.
- e. Election for new members will be before November 1 for the Fall semester and before March 1 for the Spring

semester.

Section 4 Termination of Membership...Membership shall be for life unless forfeited as hereafter provided.

- a. Any member expelled from the University of Missouri-Rolla automatically forfeits membership in Fraternal Order of Leaders (If reinstated by the University, the student may be reinstated by Fraternal Order of Leaders by a 2/3 vote of the entire active chapter).
- b. Any member who fails to perform his duties as a member of Fraternal Order of Leaders may be expelled by a 2/3 vote of the chapter.
- c. Any member who fails to pay his dues or fees within 30 days of the prescribed time may be expelled by a 2/3 vote chapter.
- d. Any member who is absent, without excuse, for three meetings in a given semester may be expelled by a 2/3 vote of the chapter.
- e. Any member may resign the organization on his own behalf. Any member whose connections with Fraternal Order of Leaders shall be severed by resignation, expulsion or otherwise, shall forfeit all interest in any funds or other property belonging to the organization.

of the

- f. Membership may be revoked if deemed necessary by the organization. A two-thirds (2/3) affirmative vote of the membership is required to revoke membership. A membership removal notice shall be given to the member at least one week prior to the removal vote.

- Section 5 All active members shall have equal rights and privileges with respect to the election of officers.
- Section 6 Membership roster is to be supplied to the Department of Student Life each fall and spring semester.
- Section 7 A faculty advisor shall be elected from the Faculty Membership. The Faculty advisor shall serve for an indefinite period.
- Section 8 The Advisor to the Organization must be a UMR faculty or staff member who is employed by the University at least 75% FTE. A plurality vote of the membership is required to approve the advisor; he or she may be removed by the membership by an affirmative plurality vote.

### **Article III – Dues and Fees**

- Section 1 The amount of the annual or semester dues or special assessments necessary to carry on the work of Fraternal Order of Leaders shall be determined by the Treasurer and approved by the Active Membership.

### **Article IV – Officers**

- Section 1 Officers of Fraternal Order of Leaders shall be: President, Vice President, Casino Night, Treasurer, New Member Coordinator, Recording Secretary, Corresponding Secretary, Inner Guard, and Outer Guard.
- Section 2 Only UMR students shall be eligible to be an Officer of the Organization.

- Section 3 Any UMR student eligible to be an Officer of the Organization must be in good standing with the university as per the RSO Policies Academic Regulations.
- Section 4 The officers shall be elected for a term of one semester Except Casino Night, see Section 3) by a majority vote of the Active Membership present, at the last meeting of the semester prior to their term in office. All officers are to be reported to the Department of Student Life upon approval.
- Section 5 The Casino Night office shall be a year long term, elected in April.
- Section 6 In the event of a vacancy, the position will be filled by a majority vote of the Active Membership present at the meeting following the vacancy.
- Section 7 Any Officer of the Organization may be removed from such office if deemed necessary by the Organization. A two-thirds (2/3) affirmative vote of the membership is required to remove the Officer. Said Officer shall be given the opportunity to speak on his or her behalf to the membership. An Officer Removal Notice shall be given to the officer at least one week prior to the removal vote.

#### **Article V – Meetings**

- Section 1 Meetings shall be held at least once a month during the school year. There will be a banquet held each semester at which time new members shall be initiated.
- Section 2 The President shall set the time and place of all meetings. A special meeting may be called by the President.
- Section 3 A quorum shall exist at any Meeting of the Membership where at least fifty percent (50%) of the Members are in attendance.
- Section 4 Parliamentary authority to be used is Robert's Rules of Revised Order.

#### **Article VI – Rules and Regulations**

Section 1 Fraternal Order of Leaders will follow all local, state, and federal laws, as well as rules of the University of Missouri-Rolla.

## **Article VII – Amendments and By-Laws**

Section 1 This Constitution shall have been presented to the Membership of the Organization and shall be ratified by a majority vote thereof; approval of the UMR Student Affairs Committee and the approval of the UMR Academic Council.

Section 2 This Constitution may be amended or repealed by a two-thirds (2/3) majority vote of the Members of the Organization; approval of the UMR Student Affairs Committee or their designee.

Section 3 Organization By-Laws ratification and any amendments require a simple majority vote of the Members present at the Meeting of Membership.

Section 4 The Chapter By-Laws will be established and maintained.

- a. Any Active Member may propose a by-law or a change in the By-Laws.
- b. Any by-law or change in the By-Laws must be passed by a majority of the Active Members present.
- c. Suspension of any or all of the By-Laws requires a majority vote.

Section 5 This Constitution and By-Laws and any amendments and changes hereto shall be made available to any Member of the Organization for inspection during reasonable office hours.

## **BY-LAWS**

### **Article I – Duties of the Officers**

Section 1 President-It shall be the duty of the President to preside at all meetings, to call all meetings, and to perform such other duties as ordinarily pertain to his office.

- Section 2 Vice President-It shall be the duty of the Vice President to perform on the President's behalf in his absence, to act as ex-officio member of all committees, and to perform such other duties as ordinarily pertain to his office.
- Section 3 Casino Night-It shall be the duty of Casino Night to act as ex-officio member of the Casino Night committees and to perform such other duties as ordinarily pertain to his office.
- Section 4 Treasurer-It shall be the duty of the Treasurer to have custody of all funds, accounting for the same at each meeting, and to perform such other duties as pertain to his office.
- Section 5 New Member Coordinator-It shall be the duty of the New Member Coordinator to educate the new members with respect to the Organization, to take charge of all aspects of new member recruitment, and to perform such other duties as pertain to his office.
- Section 6 Recording Secretary-It shall be the duty of the Recording Secretary to keep records of membership, attendance at meetings, of the business transacted at meetings of the Organization, and to perform such other duties as pertain to his office.
- Section 7 Corresponding Secretary-It shall be the duty of the Corresponding Secretary to notify all Active Members of meetings of the Organization, to act as Organization correspondent, and to perform such other duties as pertain to his office.
- Section 8 Inner Guard and Outer Guard-It shall be the duty of the Inner and Outer Guards to assist the President in maintaining order at meetings and to perform such other duties as pertain to their offices.

## **Article II – Order of Business**

- Section 1 The order of business of all meetings shall be as follows:
- I. Opening
  - II. Roll call
  - III. Reading of the Minutes



- IV. Reports of Officers
- V. Reports of Committees
- VI. Irregular and Unfinished Business
- VII. New Business
- VIII. Suggestions and Announcements
- IX. Adjournment

### **Article III – Method of Voting**

- Section 1      The business of Fraternal Order of Leaders shall be transacted by show of hands voting unless objection to such method is acknowledged.

### **Article IV – Committees**

- Section 1      All committees shall be appointed by the President, who shall have the power to determine the size and charge of these committees. The Vice President shall be an ex-officio member of committees, except Casino Night Committees, which the Casino Night Office shall be the ex-officio member of.
- Section 2      The Ugly Man Committee shall assist all organizational ugly men with their ugly man programs and shall be responsible for the collection and distribution of all ugly man proof of funds with their respective Treasurer.
- Section 3      The Casino Night Committee shall be responsible for the publicity, securing of a place, games and manpower, collection of money, and total execution of the casino night activities.
- Section 4      The Public Relations Committee shall be responsible for the securing of ads and information for the public, distribution of the fliers, and distribution of all public announcements; paper, electronic, and web-based.
- Section 5      Other committees are Mums for Moms, Freshman of the Year, and other committees appointed by the President under Article IV, Section 1.

### **Article V – Finances**

- Section 1      The Treasurer shall deposit all funds of Fraternal Order of Leaders in a local bank as approved by the President.
- Section 2      All bills must be approved by the President and paid by check only.  
                    The check is to be signed by the Treasurer.
- Section 3      All receipts from purchases of Fraternal Order of Leaders by members must be presented to the Treasurer or the individual member will be held responsible for that purchase.
- Section 4      A budget is to be prepared in the Fall and Spring semesters of each year by the Treasurer for approval by the Active Membership.
- Section 5      A Charities Account will be maintained by the Treasurer separate from the above mentioned Fraternal Order of Leaders account. The Treasurer will sign all checks of this account upon approval of the expense by the President. The Charity Account is to be used totally for the benefit of the community. Fraternal Order of Leaders may not use this money for other than charitable work.

## **Appendix**

# FRATERNAL ORDER OF LEADERS

**"UMR's Leadership Fraternity"**  
**Serving the Phelps County Community Partnership**

## **Who We Are**

We are a committed organization of hardworking, experienced leaders whose primary goal is to donate their time and effort to benefit charity

## **If You Are...**

dedicated	loyal	influential	hard-working
generous	confident	innovative	motivated

*We are looking for you!*

## **Mission Statement**

Fraternal Order of Leaders desires to do the best we can to serve the UMR campus and the Rolla Community, while at the same time, have the best time we can doing it.

## **Purpose**

Fraternal Order of Leaders strives to recruit outstanding leaders of the UMR student body and help mold them into exceptional leaders.

# FRATERNAL ORDER OF LEADERS

**"UMR's Leadership Fraternity"**  
**Serving the Phelps County Community Partnership**

## Who Are They And What Are They About?

Fraternal Order of Leaders is the Leadership Fraternity at the University of Missouri – Rolla (UMR), composed of a group of men that seek to make a difference and enjoy in assisting people in need as well as helping out the Rolla Community.

### MISSION

The mission of Fraternal Order of Leaders is to help families and children of the Phelps County Community through projects at UMR and in the community; and have the best time they can while doing it. Fraternal Order of Leaders recruits leaders of the UMR campus not only to help accomplish their goal, but to enhance the individual's leadership skills.

Fraternal Order of Leaders holds many events throughout the year in order to accomplish their goals. Such events include: the Annual Casino Night (where members of the community and UMR get together and press their luck and ultimately get a chance to win prizes with their winnings), Ugly Man, Mums for Moms, Pizza Night, and Summerfest. These events raise a lot of money to go to families and children of the Rolla Community. Not only do they donate their time and money to the community, but they also acknowledge individual students of UMR each year that have shown great leadership and scholastic achievements throughout their Freshman year by awarding a \$500 "Freshman of the Year" scholarship to one male and one female student.

Fraternal Order of Leaders also works with the Phelps County Community Partnership and their "Capable Kids and Families" program, offering services and donations for children up to the age of three with developmental delays or disabilities. Oh, and it doesn't stop there... early in the year Fraternal Order of Leaders will be helping to brighten the lives of these young ones by holding an activities day, "PCCP Family Day" where these young children and their families will have the opportunity to play games and enjoy experiences that they usually are not able to.

Something to keep in mind is that Fraternal Order of Leaders accomplishes all of these great achievements while meeting new people and having a blast.

## **The Constitution of The Mineshaft**

The Mineshaft is a journalistic organization charged with researching and reporting news that is relevant to the students, staff, and faculty of the University of Missouri - Rolla.

### **Article I. Name**

The name of this organization shall be The Mineshaft.

### **Article II. Purpose**

The purpose of The Mineshaft shall be to:

1. Provide relevant news and stories to the students, staff, and faculty of the University of Missouri - Rolla.
2. Produce a weekly publication that shall be distributed to members of the UMR community.
3. Produce a publication of the utmost journalistic quality that the staff is capable of producing.
4. Provide affordable advertising to campus organizations and events that are relevant to the needs of the students, faculty, and staff of the University of Missouri - Rolla.

### **Article III. Membership**

#### **A. Qualifications:**

1. All members of The Mineshaft must meet academic standards established by the University of Missouri - Rolla to participate in extra-curricular activities.
2. All potential members must be inducted by a majority vote of all staff members of The Mineshaft.
3. The Mineshaft will not discriminate on the basis of age, culture, ethnicity, race, gender, religion, creed, physical ability and attributes, sexual orientation, or socioeconomic status.

#### **B. Membership Types:**

1. Potential Members - All students wishing to join The Mineshaft shall be considered potential members until a vote of all staff members is able to be conducted. Potential members shall not receive a vote with respect to the actions of the organization.

2. Staff Members - All active members of The Mineshaft shall be considered staff members unless explicitly stated otherwise in this constitution. All staff members will receive one vote with respect to the actions of the organization.

3. Honorary Members - Each year the staff members of The Mineshaft may select up to three (3) honorary members to be a part of The Mineshaft. These members shall be people whom have shown an exceptional amount of dedication to the existence and betterment of The Mineshaft as a whole. Honorary members shall be approved by a vote of at least unanimous minus one of all staff members. Honorary members shall not receive a vote with respect to the actions of the organization

4. Advisor(s) - The advisor(s) will be selected by the staff members by a vote of at least unanimous minus one of all staff members. The role of the advisor(s) shall be to make The Mineshaft aware of campus policies affecting the organization, to provide suggestions and guidance to the Executive Board and the staff members when appropriate, and to provide a safeguard against any illicit use of funds.

#### **Article IV. Executive Board:**

##### **A. Executive Board Composition:**

1. The Executive Board shall consist of two (2) Editor-in-Chiefs, a Layout Editor, and a Secretary/Treasurer.

##### **B. Qualifications:**

1. All candidates must possess a 2.5 G.P.A. to be elected or serve as an Executive Board member.

2. All Executive Board candidates must have served as a staff member the previous semester to be considered for a position.

##### **C. Terms of Office:**

1. All Executive Board members shall assume their position the meeting after they are elected to office. They serve until the end of the fall or winter semester immediately following their election.

##### **D. Election Procedures:**

1. Elections for the Executive Board shall occur at the second to last scheduled meeting of each fall and winter semester.

2. Nominations will be opened at the meeting preceding elections. Any staff member may nominate someone for a position as long as they fulfill the qualifications required for the position they are nominated for.

3. Each candidate will be allowed the amount of time specified below to give a presentation and answer questions.

- a. Editor-in-Chief: 10 minutes
- b. Layout Editor: 7 minutes
- c. Secretary/Treasurer: 5 minutes

4. All Executive Board members will be elected by a secret ballot vote. A candidate must receive a majority vote of members present to be elected. If a majority vote is not received on the first vote, the candidate receiving the least number of votes will be removed and a new vote will be taken. This process will be repeated until there is a clear majority for one candidate.

#### **E. Duties of the Executive Board:**

1. Editor-in-Chief(s):

- a. Schedule and preside over weekly staff meetings and bi-weekly executive board meetings.
- b. Review each issue of The Mineshaft before it is sent to print.
- c. Communicate with the faculty and administration of the University of Missouri - Rolla with regards to issues regarding The Mineshaft.
- d. Serve as liaisons to the students, faculty, and administration of the university with respect to all public relations issues.
- e. Oversee the organization's expenditures in coordination with the Secretary/Treasurer and the Advisor(s).

2. Layout Editor:

- a. Develop and/or maintain the layout for the publication.
- b. Assemble each issue of The Mineshaft on a weekly basis.
- c. Submit The Mineshaft for review by the time and date prescribed by the Editors-in-Chief

3. Secretary/Treasurer:

- a. Take minutes at each of the weekly staff meetings and distribute them to the staff members.
- b. Update and maintain all list serves.
- c. Be responsible for all financial transactions that the organization enters into.
- d. Prepare a semesterly budget to be approved by the staff members.
- e. Keep accurate and up-to-date financial records.

#### **F. Removal of Members:**

1. Any member that accumulates two or more unexcused absences from staff meetings during a semester may be brought up for removal from the staff. Any excuses for absences must be approved by the Editor-in-Chief(s). If brought up for removal the staff member in question must receive a majority vote to excuse a past absence(s).

2. Each member of the Executive Board shall be subject to impeachment and removal from office upon failure to fulfill his/her duties and obligations. This process may be initiated by any staff member. A petition with signatures of one-third (1/3) of the staff members must be submitted to the Executive Board. At the next scheduled meeting a vote for removal must be taken. A vote of two-thirds (2/3) of the entire staff is required to remove an Executive Board member from office. The candidate for impeachment is guaranteed the right to make a defending statement prior to the vote being taken.

#### **G. Filling of Vacancies:**

1. If any position within the Executive Board becomes vacant during the members prescribed term, an election will be held the next meeting to fill the created vacancy. This election will occur as described under Article IV, Section D.

2. During the time that a position is left vacant, all duties of that position become the responsibility of the Editors-in-Chief.

### **Article V. Meetings**

#### **A. Types of Meetings:**

1. Staff Meetings - Each semester the Executive Board will set the schedule for weekly staff meetings. These meetings will serve as the operational meetings for The Mineshaft.

2. Emergency Meetings - If it is deemed necessary by the Executive Board an emergency meeting may be called. This decision must be made by three-fourths of the Executive Board and shall operate as a staff meeting.

#### **B. Quorum:**

1. Quorum shall be set at a majority of active staff members.

2. No business items may be decided upon during a staff or emergency meeting if quorum is not met.

#### **C. Parliamentary Authority:**

1. All meetings shall be run by Robert's Rules of Order, Newly Revised at the discretion of the Editors-in-Chief.

### **Article VI. Advisors**

#### **A. Selection**

1. The Advisor(s) shall be elected as described in Article III, Section B. The recruitment of said Advisors shall be the responsibility of the staff as a whole. Advisors should be



members of the Faculty or Administration of the University of Missouri - Rolla whom have an active interest in The Mineshaft.

#### **B. Term of Office**

1. Advisors shall serve in their term until either they decide to vacate it or they are removed by the staff.

#### **C. Removal of Advisor(s)**

1. Each Advisor shall be subject to impeachment and removal from office upon failure to fulfill his/her duties and obligations. This process may be initiated by any staff member. A petition with signatures of one-third (1/3) of the staff members must be submitted to the Executive Board. At the next scheduled meeting a vote for removal must be taken. A vote of two-thirds (2/3) of the entire staff is required to remove an Advisor. The candidate for impeachment is guaranteed the right to make a defending statement prior to the vote being taken.

#### **D. University Requirements**

1. All Advisors must meet the requirements for an Advisor as set forth by the University of Missouri - Rolla.

### **Article VII. Rules and Regulations**

#### **A. Legal Responsibility**

1. The Mineshaft shall follow all federal and state laws with respect to all aspects of its operations.
2. The Mineshaft shall abide by all University regulations that are set forth for Recognized Student Organizations.

#### **B. Member Conduct**

1. The Mineshaft shall abide by the University of Missouri Standard of Conduct.
2. The Mineshaft shall not participate or condone any form of hazing by any of its members.
3. The Mineshaft shall not endorse or sponsor events which endorse the use of alcoholic beverages.

### **Article VIII. Constitution**

#### **A. Adoption**

1. The Constitution of The Mineshaft must be adopted by a two-thirds majority vote of all staff members.
2. The Constitution of The Mineshaft will follow all applicable procedures to be approved by the Student Affairs Committee of The University of Missouri - Rolla.
3. The Constitution of The Mineshaft will follow all applicable procedures to be approved by the Academic Council of The University of Missouri - Rolla.

#### **B. Amendments**

1. Amendments may be introduced at any staff meeting by any staff member. This introduction will be comprised of introducing the amendment and answering any questions about the amendment.
2. After the introduction of an amendment all staff members will be notified of its presence via email and will be informed that it will be voted on at the next regularly scheduled staff meeting.
3. All amendments must be voted upon at the next regularly scheduled staff meeting after their introduction. All amendments to The Constitution of The Mineshaft must pass by a two-thirds majority vote of all staff members.
4. The Mineshaft will follow all applicable procedures to have these amendments approved by the Student Affairs Committee of The University of Missouri - Rolla or their selected representative.

**Volume XXXVII, Number 6**  
**Minutes of the Academic Council Meeting**  
**April 12, 2007**

**I. Call to Order, Roll, and Approval of Minutes**

The meeting was called to order at 13:30 by President Kurt Kosbar and roll was taken. The following absentees were noted:

The meeting minutes of February 15, 2007 were **approved** as submitted.

**II. Campus Reports and Responses**

**A. President Report – Kurt Kosbar**

- a. Campus Reorganization – Vice Provost of Graduate Studies (VPGS) and Vice Provost for Academic Affairs have been named. Dr. Robert Schwartz will take over the Vice Provost for Academic Affairs, and Dr. Venkat Allada was named Vice Provost for Graduate Studies.
- b. Campus Reorganization – Tenure Policy. Tenure recommendations have been forwarded to the Provost and has been sent back to the committee and the comments are being looked at and will come back to the next meeting of Academic Council.
- c. Campus Reorganization – Student Academic Regulations. A draft prepared by the Ad-Hoc committee (chair, Doug Carroll) has been sent to the Academic Freedom and Standards Committee and Student Affairs for comment and should be back after a few minor grammatical errors have been made at the next meeting.
- d. Campus Reorganization– UMR Bylaws, UMR Catalogs. An ad-hoc committee, chaired by Doug Carroll, is continuing to have real interesting meetings with another meeting scheduled for April 25 at 1:00 - 3:00 in St. Pat's B.
- e. Senate Bill 389 is on hold, hasn't been passed, but hasn't been thrown out yet. Has made some significant changes, not still on track.
- f. Board of Curators met here last week, and unanimously approved the name change, unanimously approved the tech park, a tuition increase on a split vote with discussion over concern viewed as inflation.
- g. Academic Council held a breakfast for the Board of Curators last week and there were about ten people there who discussed different topics at different tables. Those who came and participated, I appreciated you coming and taking part of this. Engineers without Borders came and brought two students who spoke and if all students were as well spoken as these two, the university would indeed be doing we

- h. IFC – Inter-Campus faculty leave policy is under review on campus. Board of Curators will be acting soon on this FMLA. Wording is under review by Personnel Committee and there is another committee very actively involved and have heard nothing but good things.
- i. Pick-a-Prof website is under review so that you can go out and find out how your professor is rated.

**B. Administrative Report – Chancellor J. F. Carney III**

- a. Board of Curators – We had them on campus Wednesday, Thursday, and Friday and had three new curators to indoctrinate with all the wonderful things going on at UMR. On Thursday I had about ten minutes to tell them about the innovations in teaching, student activities and community activities going on here. On Friday, the full Board voted unanimously to support the name change and research park.
- b. The MAE building we are still waiting on
- c. Fall enrollment is still looking good and we are looking at over 1,000 students.
- d. Board of Trustees will be here next week for the Capital campaign. We are well over the 10 million dollar mark.

**C. Administrative Report – W. K. Wray**

- a. Enrollment – up 265 over last fall.
- b. New provost's positions will take their positions on June 18 and are presently writing job descriptions for staff which will be posted next Tuesday and will be selected by May 4<sup>th</sup>.
- c. Workshops will be taking place from May through June for department chairs and secretaries for the new structure system taking over on July 1.
- d. Proposals up 7% over this time last year, but overall total proposals are down by 10%.

**D. Staff Council Report – Kim Frazier**

No report.

**E. Student Council – Lauren Huchingson**

- a. Officer elections: Beth Groeneke new President; Alex Dempsey, Vice President External Affairs; Andrew \_\_\_\_\_, Vice President Internal Affairs, Rachel Pruitt, Treasurer, and James Michael Carter, Recorder.

- b. Looking at having a voting faculty member on the staff council since RP&A has a student on the Academic Council.

**F. Council of Graduate Students – R. K. Singh**

- a. Officers Elections: R. K. Singh, President;
- b. Research Showcase – Was on April 4<sup>th</sup>. with 16 faculty members present.

**III. Reports of Standing and Special Committees**

**A. Curricula**

- a. Have submitted a set of CC and EE1 forms – accept a recommendation to approve these forms. Recommended, and approved since there was not a member present.

**B. Budgetary Affairs – Don Meyers**

- a.

**C. Student Affairs – Jeff Smith**

**IV. Old Business**

None

**V. New Business and Announcements**

**A. New Referrals**

None

**B. Announcements**

Frank Blum, UMR representative to the Missouri Association of Faculty Senates, reported on the Association's Winter meeting. Details can be found at:

[http://campus.umn.edu/acadcoun/reports/mafs\\_report\\_2.05-06.07.pdf](http://campus.umn.edu/acadcoun/reports/mafs_report_2.05-06.07.pdf)

The meeting was adjourned at 15:00.

Respectfully Submitted,

Eun Soo Park  
Secretary, Academic Council

The logo consists of a black, curved, triangular shape pointing towards the bottom-left corner. The letters "UMR" are printed in white, bold, sans-serif font within the upper portion of this shape.

UMR

# Academic Council Meeting

April 12, 2007

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UNIVERSITY OF  
MISSOURI-ROLLA

# Agenda

- **Call to Order / Roll Call**
- **Approval of 2/15/07 AC Minutes**
- **Campus Reports**
  - » AC President
  - » Administrative Report
  - » Staff Council
  - » Student Council
  - » Council of Grad. Students
- **Standing and Special Committees**
  - » Curricula
  - » Budgetary Affairs
  - » Student Affairs
- **Old Business**
  - » Referrals and Actionable Items
- **New Business**
  - » Special Programs
  - » Diploma Change
  - » Ad-Hoc Bylaws Committee
- **Adjourn**

K. Kosbar	5 min
J. Carney III, W. <u>Wray</u> ,	5 min
K. Frazier	3 min
L. Huchingson	3 min
R. Singh	3 min

K. <u>Nisbett</u>	5 min
D. Myers	5 min
J. Smith	0 min

F. Blum,	5 min
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D. Carroll



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D. Carroll

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F. Blum,	5 min
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D. Carroll

# **Campus Reorganization Administrative Structure**

- **4 Vice Provosts Named**
  - » Research – Krishnamurthy
  - » Undergraduate Studies – Collier
  - » Graduate Studies - Allada
    - RP&A Placed W. Fahrenholtz on Search Committee
  - » Academic Affairs - Schwartz
    - RP&A placed B. McMillian on Search Committee

# **Campus Reorganization Tenure**

- Tenure committee held open forum
- Advocate dropped
- Distributed to faculty 2/13/07
- AC Endorsed 2/15/07
- Provost comments have been submitted to Tenure Committee
- Anticipate revised proposal from Tenure Committee at 6/7/07 AC Meeting

# **Campus Reorganization Student Academic Regulations**

- Ad-hoc committee has completed draft
- Student Affairs reviewing
- Academic Freedom and Standards completed review
- Eventually RP&A will review, and present to Academic Council
- If General Faculty approve By-Laws in May, then should be brought to Academic Council 6/7/07

# **Campus Reorganization UMR Bylaws**

- Ad-hoc committee continuing to have very active debates
- Open Forum tentatively scheduled for 1:00 – 3:00 PM, Wed, April 25, St. Pat's Ballroom B
- Issues with getting this to the General Faculty in time for May 1 meeting.
- Catalogs also need to be changed
- Diploma (Dean signature) needs to be changed

## **Senate Bill 389**

- Reallocation of funds, de-emphasizing UMC capital projects, increased support for UMR projects
- Other significant changes
- Currently on-hold

## **Board of Curators**

- Met at UMR last week
- Unanimously approved name change



## Board of Curators

- Met at MS&T last week
- Unanimously approved name change
- Unanimously approved tech. park
- Approved 3.8% tuition increase on 5/4 vote
- Approved 2% (with 1% market adjustment) salary pool increase
- Discussion about intellectual freedom

# Board of Curators

- AC Breakfast Discussion Leaders
  - » Ralph Flori, Katie Grantham Lough, Lance Haynes, Greg Hilmas, Ronaldo Luna, Frances H. Montgomery, Jag Sarangapani, Rick Stephenson, Klaus Woelk, Don Wunsch
- Stars of Breakfast – Engineers Without Borders students
  - » Kurt Haslag, David Longrie, Lucas Rottler

# IFC Business

- Faculty Leave Policy (FMLA & Other)
  - » Will be taken up by Board of Curators soon
  - » Under review by Personnel Committee
  - » Send comments to IFC representatives (Schwartz, Blum, Kosbar)
- Questions about Pick-a-Prof



Home

My Schedule

Profs &amp; Courses

Book Exchange

Messages

Browse Courses :: Write Reviews

Dept Course Enter Profs or Books to search for here! SEARCH

K Kosbar [ Write Review ]

Kosbar, K

Overall Rating ★★★★★

[ Courses, Ratings &amp; Grades | Student Reviews | Evaluations | Course Descriptions &amp; Expectations | Biography ]

Grade History



About Courses, Ratings &amp; Grades

The chart to the left shows K Kosbar's cumulative grade history. All of our grade histories are (painstakingly) obtained directly from university records, we do NOT rely on individual students telling us their grades.

Below you will find information about the courses this professor is scheduled to teach and has previously taught. Click the column titles to automatically sort the information.

Tip: Click columns to sort!

Course	Kosbar, K			
	Rating	Average GPA	% Dropped	Semesters Teaching
<a href="#">ELEC ENG 243 Communication Systems</a>	★★★★★	3.04	0.00%	SP FA
<a href="#">ELEC ENG 391 Electrical Engineering Senior Project I</a>	★★★★★	3.27	0.00%	SP
<a href="#">ELEC ENG 400 Special Problems</a>	★★★★★	n/a	0.00%	SP
<a href="#">ELEC ENG 490 Special Research And Thesis</a>	★★★★★	n/a	0.00%	SP SU FA
<a href="#">ELEC ENG 444 Stochastic Signal Analysis II</a>	★★★★★	n/a	0.00%	FA
<a href="#">ELEC ENG 390 Undergraduate Research</a>	★★★★★	n/a	0.00%	SP SU FA

Past Courses

<a href="#">ELEC ENG 343 Communications Systems II</a>	★★★★★	3.14	0.00%
<a href="#">ELEC ENG 392 Electrical Engineering Senior Project II</a>	★★★★★	3.33	0.00%
<a href="#">ELEC ENG 265 Linear Systems I</a>	★★★★★	3.21	2.77%
<a href="#">ELEC ENG 267 Linear Systems II</a>	★★★★★	2.82	4.70%
<a href="#">ELEC ENG 268 Linear Systems II Laboratory</a>	★★★★★	3.40	0.00%
<a href="#">ELEC ENG 266 Linear Systems I Laboratory</a>	★★★★★	3.45	5.17%
<a href="#">ELEC ENG 390H Undergraduate Research</a>	★★★★★	n/a	0.00%

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F. Blum,	5 min
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D. Carroll

# **Chancellor's Report**

- Summary of April Curators' meeting
- University name change developments
- MAE Building
- Higher education legislation
- Fall 2007 enrollment projections
- Preview of April 19 Board of Trustees' meeting
- Capital campaign news

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D. Carroll

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**UMR**

# **ACADEMIC COUNCIL REPORT**

**WARREN K. WRAY**

**PROVOST AND EXECUTIVE VICE  
CHANCELLOR FOR ACADEMIC  
AFFAIRS**

**April 12, 2007**

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**UNIVERSITY OF  
MISSOURI-ROLLA**



# ENROLLMENT MANAGEMENT

<u>Admissions</u>	(PS 4/1/07 )	<u>Fall 2006</u>	<u>Fall 2007</u>
Freshmen		1772	2037
Transfers		172	180
Graduates		590	572

## PRO 2007 Registration

	<u>Students</u>	<u>Guests</u>
April 20	125	202
April 28	142	237

- ◆ **Proposal activities through February 2007**
  - **Proposals awarded: \$24.2M (up 7.3%)**
  - **Proposals submitted: \$80M (down 10.4%)**
- ◆ **Externally sponsored grant and contract expenditures through February 2007: \$20.8M (down 16.6%)**

# **INFORMATION TECHNOLOGY**

- **Desktop Enhancement**

FY2006 complete with 320 machines  
deployed

FY2007 progressing with 109 machines  
deployed

348 total machines redeployed to graduate  
students, part-time employees, etc.

## SCHOOL OF ENGINEERING

- Professor Ganesh K. Venayagamoorthy of the Electrical and Computer Engineering Department has received a 2007 ONR Young Investigator Program award. We are pretty sure that this makes Prof. Venayagamoorthy the first UMR faculty to have been awarded both an NSF CAREER award AND an ONR YIP award. Congratulations, Kumar!

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R. Singh	3 min

K. <u>Nisbett</u>	5 min
D. Myers	5 min
J. Smith	0 min

F. Blum,	5 min
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D. Carroll

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- Call to Order / Roll Call
- Approval of 2/15/07 AC Minutes
- Campus Reports
  - » AC President
  - » Administrative Report
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  - » **Student Council**
  - » Council of Grad. Students
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  - » Budgetary Affairs
  - » Student Affairs
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  - » Referrals and Actionable Items
- New Business
  - » Special Programs
  - » Diploma Change
  - » Ad-Hoc Bylaws Committee
- Adjourn

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J. Carney III, W. <u>Wray</u> ,	5 min
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D. Carroll

# Referrals

- Prerequisite Policy
  - » AF&S
  - » Policy Change Approved by AC, 2/15/07
  - » Implementation pending
- Faculty / Staff Demographics
  - » Budgetary Affairs
  - » Anticipate report today
- Certificate Program Review
  - » Curricula
  - » On-hold, pending Bylaws change
- Use of end of semester evaluations
  - » Personnel
  - » Under review

# Referrals

- AC Approval of Student Organizations
  - » Student Affairs
  - » AC Resolution to alter approval process
  - » Anticipate change will be reflected in Bylaws revision
- Mid-Semester Student Evaluations
  - » AF&S and Personnel
  - » Closed – Both committees have reported to RP&A
  - » Continuing discussion with CET, Stu. Co. regarding interpretation of past AC motions
- P&T Revisions
  - » AC endorsed Tenure committee draft
  - » Sent to Provost
  - » Provost sent comments to Tenure
  - » Anticipate Tenure will formally address comments at June 2007 AC meeting

# Referrals

- Bylaws revision
  - » Ad-Hoc Bylaws Committee
  - » Anticipate Open Forum soon
- Student Academic Regulations
  - » Ad-Hoc Bylaws Committee made recommendations to RP&A
  - » AF&S has reviewed, and approved with minor changes
  - » Student Affairs reviewing
- Catalog changes
  - » Ad-Hoc Bylaws Committee
  - » Delaying action until Bylaws revision submitted to General Faculty
  - » Possible time-crunch

# Referrals

- Diploma Change to Remove Deans
  - » Hope AC will take up today
- Creation of Minors not Housed in Schools
  - » Ad-Hoc Committee
  - » Anticipate creation of “Special Programs” in Bylaws – to be discussed today
- IT “Users Bill of Rights”
  - » ITCC
  - » Under review

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D. Carroll



# **Special Programs**

Many programs have reach which spans traditional departments such as:

Freshman Engineering, Residential College,  
Global Studies, Hit the Ground Running,  
Student Design and Experiential Learning  
to name just a few

## Working Group

- A working group determined proposed guidelines for *Special Programs*
- Develop mechanism to establish new programs
- If possible, incorporate existing programs into structure

# Mechanism

- Provost proposes *Special Program* w/ suggested structure
- *Board of Representatives* selected from member departments
- *Board of Representatives* (normally?) select *Program Leader*

## **Scope / Authority**

- Program Leader authorized to submit curricula changes to AC Curriculum Committee
- Special Programs are not degree granting
- All academic courses to be given under the authority of a department

# Timelines

- Special Programs included in the Bylaws changes
- AC will be asked next month to approve guidelines until Bylaws changes adopted (allows programs under consideration programs to proceed)

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**UMR**

# **ACADEMIC COUNCIL REPORT**

**WARREN K. WRAY  
PROVOST AND  
EXECUTIVE VICE CHANCELLOR  
FOR ACADEMIC AFFAIRS**

**April 12, 2007**



**UNIVERSITY OF  
MISSOURI-ROLLA**

**UMR**

# **ENROLLMENT MANAGEMENT**

**UNIVERSITY OF  
MISSOURI-ROLLA**

## UMR - Enrollment Management Services WEEKLY ENROLLMENT REPORT

			Fall 2002 (PS) 4/1/2002	Fall 2003 (PS) 4/1/2003	Fall 2004 (PS) 4/1/2004	Fall 2005 (PS) 4/1/2005	Fall 2006 (PS) 4/1/2006	Fall 2007 (PS) 4/1/2007
<b>FRESHMEN</b>	<b>Inquiries</b>	Beg. Fr. Inquiries	13135	10775	9482	10098	10740	10749
		HS Jr. Inquiries	6210	5318	4786	4702	4537	4238
	<b>Applications</b>		1828	1727	1771	1854	1967	2274
		Pending	132	72	68	111	93	109
		Withdrawn Apps	3	13	4	0	5	1
	<b>Admitted</b>		1631	1590	1634	1697	1772	2037
		Cancelled Admits	79	27	43	33	52	42
		Denied	62	52	65	46	97	127
	<b>Enrolled</b>		68	193	216	252	235	281
<b>TRANSFERS</b>	<b>Inquiries</b>		540	542	717	613	862	770
	<b>Applications</b>		274	281	242	274	279	286
		Pending	77	55	52	90	100	100
		Withdrawn Apps	0	0	1	0	5	5
	<b>Admitted</b>		191	221	180	181	172	180
		Cancelled Admits	0	0	1	0	0	3
		Denied	6	5	9	3	2	1
	<b>Enrolled</b>		0	45	14	0	58	51
<b>GRADUATES</b>	<b>Inquiries</b>		3007	2171	1109	1165	1632	1522
	<b>Applications</b>		2775	2194	1090	1047	1410	1315
		Pending	1103	794	396	330	412	358
		Withdrawn Apps	4	7	4	1	4	2
	<b>Admitted</b>		1214	907	429	457	590	572
		Cancelled Admits	0	0	0	0	0	0
		Denied	454	486	261	259	404	383
	<b>Enrolled</b>		181	0	0	0	0	2
<b>ORIENTATION</b>	<b>Freshmen</b>	Total Reservations	502	568	612	719	772	806
	<b>Transfer</b>	Total Reservations	0	0	53	37	70	48
<b>HOUSING AGREEMENTS</b>		Returning	580	644	N/A	720	687	*790
		Beginning Freshmen	436	452	538	731	761	*725
		New Transfers	N/A	N/A	N/A	N/A	N/A	*24
		Waivers	N/A	N/A	N/A	N/A	N/A	*10
		Greek Housing	N/A	N/A	N/A	N/A	N/A	N/A
		<b>TOTAL</b>	1,016	1,096	538	1,451	1,448	*1549
<b>4TH WEEK CENSUS</b>		Beginning Freshmen	815	897	877	914	977	
		New Transfers	261	281	288	279	266	
		Graduates	423	348	402	355	392	
		<b>TOTAL</b>	1,499	1,526	1,567	1,548	1,635	

PS - data from PeopleSoft system

Unofficial Internal Planning Data - not intended for public release.

\*3-28-2007 Data

**Preview, Registration and Orientation  
PRO 2007  
March 30, 2007**

Major	Number of Student Participants By Session and Academic Major 2007 Spring/Summer																			
	24-Feb		9-Mar		14-Apr		20-Apr		28-Apr		8-Jun		15-Jun		22-Jun		11-Aug		Total	
	Students	Guest	Students	Guest	Students	Guest	Students	Guest	Students	Guest	Students	Guest	Students	Guest	Students	Guest	Students	Guest	Students	Guest
A&S Und							1	1	1	3	1	1							3	5
Bio Sci	4	8	4	5	4	7	1	2	3	4	3	5							19	31
Business	1	2	1	1	2	5	4	5											8	13
Chemistry	3	4	3	5	3	6	1	2	2	3									12	20
Comp Sci	9	15	13	22	5	7	8	12	16	23	3	5							54	84
M&IS Und																			0	0
Economics																			0	0
Engineering	112	186	119	203	122	224	108	176	111	189	65	114	12	25	4	7	16	27	669	1151
English	1	1			1	2			1	2									3	5
Geology/GeoPhy	1	2	1	2	1	2			1	1	2	4							6	11
History	2	2			2	4													4	6
IST			1	1	1	2			1	2	1	1							4	6
Mathematics			2	1											1	2			3	3
Physics	3	4	4	8	2	3	1	2	4	6			1	2					15	25
Philosophy					1	1													1	1
Psychology					1	2	1	2	2	4			1	3					5	11
Tech Com																			0	0
Total Participants	136	224	148	248	145	265	125	202	142	237	75	130	14	30	5	9	16	27	806	1372



**UMR**

# **RESEARCH**



**UNIVERSITY OF  
MISSOURI-ROLLA**

## FY 07: Proposals Awarded through February

	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Totals
Biol. Sci.	0	5,000	0	0	0	0	75,000	72,218					152,218
Chem.	612,910	12,667	120,000	78,400	18,562	0	0	157,941					1,000,480
Comp. Sci.	294,281	0	87,160	0	0	0	0	0					381,441
Engl. & Tech. Comm.	0	0	0	0	0	0	0	0					0
Hist./PS	0	0	0	0	0	0	0	0					0
Math/Stat	0	0	0	0	0	30,695	51,294	0					81,989
Phil.	0	0	0	0	0	0	0	0					0
Phys.	273,910	-20,668	98,432	20,668	7,556	0	100,000	90,000					569,899
Psych.	98,604	98,152	0	0	0	0	0	0					196,756
<b>A&amp;S Totals</b>	<b>1,279,706</b>	<b>95,151</b>	<b>305,592</b>	<b>99,068</b>	<b>26,118</b>	<b>30,695</b>	<b>226,294</b>	<b>320,159</b>					<b>2,382,783</b>
<b>Materials Sci. &amp; Eng.</b>	<b>265,000</b>	<b>580,476</b>	<b>385,513</b>	<b>294,984</b>	<b>1,210,963</b>	<b>464,176</b>	<b>698,670</b>	<b>541,029</b>					<b>4,440,812</b>
<b>Mining &amp; Nuclear Eng.</b>	<b>840,818</b>	<b>172,965</b>	<b>144,713</b>	<b>330,583</b>	<b>52,077</b>	<b>14,189</b>	<b>0</b>	<b>6,064</b>					<b>1,561,408</b>
<b>Geol. Sci. &amp; Eng.</b>	<b>10,000</b>	<b>172,642</b>	<b>130,000</b>	<b>30,000</b>	<b>11,789</b>	<b>161,914</b>	<b>164,507</b>	<b>3,000</b>					<b>683,852</b>
<b>SoMEER</b>	<b>1,115,818</b>	<b>926,083</b>	<b>660,226</b>	<b>655,567</b>	<b>1,274,829</b>	<b>640,279</b>	<b>863,177</b>	<b>550,093</b>					<b>6,686,073</b>
<b>Interdisciplinary Eng.</b>	<b>50,000</b>	<b>6,000</b>	<b>77,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>					<b>133,000</b>
<b>Chem. &amp; Biol. Eng.</b>	<b>1,490</b>	<b>2,500</b>	<b>10,175</b>	<b>14,450</b>	<b>271,600</b>	<b>3,991</b>	<b>0</b>	<b>0</b>					<b>304,206</b>
<b>Civil, Arch. &amp; Env. Eng.</b>	<b>54,470</b>	<b>416,115</b>	<b>272,080</b>	<b>457,038</b>	<b>38,593</b>	<b>2,000</b>	<b>25,000</b>	<b>284,051</b>					<b>1,549,347</b>
<b>Elec. &amp; Comp. Eng.</b>	<b>15,000</b>	<b>316,937</b>	<b>1,424,846</b>	<b>372,170</b>	<b>486,390</b>	<b>106,985</b>	<b>464,966</b>	<b>534,336</b>					<b>3,721,630</b>
<b>Engr. Mgt. &amp; Sys. Eng.</b>	<b>0</b>	<b>158,620</b>	<b>0</b>	<b>499,642</b>	<b>232,800</b>	<b>0</b>	<b>20,000</b>	<b>21,627</b>					<b>932,689</b>
<b>Mech. &amp; Aero. Eng.</b>	<b>514,280</b>	<b>326,534</b>	<b>60,512</b>	<b>105,000</b>	<b>1,734,744</b>	<b>354,795</b>	<b>83,999</b>	<b>44,650</b>					<b>3,224,514</b>
<b>SOE Totals</b>	<b>635,240</b>	<b>1,226,707</b>	<b>1,844,613</b>	<b>1,448,300</b>	<b>2,764,127</b>	<b>467,771</b>	<b>593,965</b>	<b>884,663</b>					<b>9,865,387</b>
<b>Econ. &amp; Finance</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>37,551</b>	<b>0</b>					<b>37,551</b>
<b>Business Admin.</b>	<b>98,604</b>	<b>861,940</b>	<b>0</b>	<b>0</b>	<b>60,000</b>	<b>0</b>	<b>0</b>	<b>0</b>					<b>1,020,544</b>
<b>Info Sci. &amp; Tech.</b>	<b>116,400</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>					<b>116,400</b>
<b>SMIS</b>	<b>215,004</b>	<b>861,940</b>	<b>0</b>	<b>0</b>	<b>60,000</b>	<b>0</b>	<b>37,551</b>	<b>0</b>					<b>1,174,495</b>
<b>Enrollment Mgt</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>					<b>0</b>
<b>International Affairs</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>					<b>0</b>
<b>Minority Affairs</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>					<b>0</b>
<b>Other</b>	<b>0</b>	<b>10,000</b>	<b>0</b>	<b>620,166</b>	<b>0</b>	<b>11,338</b>	<b>1,980,000</b>	<b>0</b>					<b>2,621,504</b>
<b>RPDC</b>	<b>21,550</b>	<b>0</b>	<b>659,924</b>	<b>0</b>	<b>678,780</b>	<b>0</b>	<b>7500</b>	<b>0</b>					<b>1,367,754</b>
<b>KUMR</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>64,978</b>	<b>20,191</b>	<b>0</b>	<b>0</b>					<b>85,169</b>
<b>Grand Totals:</b>	<b>3,267,318</b>	<b>3,119,881</b>	<b>3,470,355</b>	<b>2,823,101</b>	<b>4,668,832</b>	<b>1,170,274</b>	<b>3,708,487</b>	<b>1,754,916</b>					<b>24,183,164</b>

+7.3% compared to FY 06

Total: \$24.2M

UNIVERSITY OF  
MISSOURI-ROLLA

# Proposals Awarded Year-over-Year Comparison

	Dollars thru February			Number of Proposals & AMENDMENTS thru February		
	FY05	FY06	FY07	FY05	FY06	FY07
Biol. Sci.	\$53,963	\$482,732	\$152,218	6	2	4
Chem.	\$1,411,917	\$1,231,769	\$1,000,480	7	10	5
Comp. Sci.	\$861,767	\$347,897	\$381,441	5	1	2
Engl. & Tech. Comm.	\$0	\$0	\$0	0	0	0
Hist./PS	\$7,224	\$0	\$0	1	0	0
Math/Stat	\$102,600	\$269,942	\$81,989	3	4	2
Phil.	\$0	\$27,340	\$0	0	1	0
Phys.	\$375,876	\$1,080,445	\$569,899	5	4	6
Psych.	\$64,787	\$195,511	\$196,756	0	0	1
A&S Totals:	\$2,878,134	\$3,635,636	\$2,382,783	27	22	20
Materials Sci. & Eng.	\$2,162,102	\$4,330,579	\$4,440,812	39	43	51
Mining & Nuclear Eng.	\$1,881,211	\$1,556,979	\$1,561,408	14	9	19
Geol. Sci. & Eng.	\$728,433	\$862,505	\$683,852	11	18	13
SoMEER	\$4,771,746	\$6,750,063	\$6,686,073	64	70	83
Interdisciplinary Eng.	\$14,177	\$94,495	\$133,000	1	2	2
Chem. & Biol. Eng.	\$40,000	\$692,692	\$304,206	1	3	1
Civil, Arch. & Env. Eng.	\$2,478,817	\$2,678,812	\$1,549,347	40	36	27
Elec. & Comp. Eng.	\$3,097,825	\$2,840,182	\$3,721,630	34	46	51
Engr. Mgt. & Sys. Eng.	\$798,659	\$316,847	\$932,689	6	2	3
Mech. & Aero. Eng.	\$2,249,948	\$2,676,706	\$3,224,514	18	22	19
SOE Totals	\$8,679,426	\$9,299,734	\$9,865,387	100	111	103
Econ. & Finance	\$11,779	\$0	\$37,551	2	0	1
Business Admin.	\$1,544,518	\$1,056,990	\$1,020,544	9	4	3
Info Sci. & Tech.	\$205,797	\$444,622	\$116,400	1	1	1
SMIS	\$1,762,094	\$1,501,612	\$1,174,495	12	5	5
Enrollment Mgt	\$0	\$0	\$0	0	0	0
International Affairs	\$0	\$0	\$0	0	1	0
Minority Affairs	\$0	\$14,000	\$0	0	0	0
Other	\$20,723	\$577,316	\$2,621,504	2	7	7
RPDC	\$353,581	\$605,494	\$1,367,754	3	2	7
KUMR	\$124,394	\$147,889	\$85,169	2	2	3
Grand Totals:	\$18,590,098	\$22,531,743	\$24,183,164	210	220	228



**UMR**

# **UNDERGRADUATE AND GRADUATE STUDIES**



**UNIVERSITY OF  
MISSOURI-ROLLA**



# **Center for Educational Research & Teaching Innovation**

**CERTI- Clicker Lunch n' Learn on April 5:  
*Effectiveness of Clicker Usage in A Small Upper  
Division Level Class***

**Presenter: Bih-Ru Lea, School of Management &  
Information Systems**

**April 5, 2007**

**12:00 pm , Havener Center**

To attend, please call the CERTI office at 341-7648 or  
RSVP to [angelap@umr.edu](mailto:angelap@umr.edu) by Tuesday, April 3rd. All  
attendees are encouraged to bring their own lunch;  
dessert and beverages are provided.

# HLC/NCA Accreditation

Two upcoming workshops to assist departments with evidence submissions:

Criterion 2&5: April 23, 2007

- **Workshop: Tuesday, April 10, 2007**

Criterion 1: May 7, 2007

- **Workshop: Tuesday, May 1, 2007**

# Learning Enhancement Across Disciplines (LEAD)

- Training session for LEAD Peer Learning Assistants-

April 15, 7:00-9:00pm, room 208  
Norwood Hall.

The logo consists of the letters "UMR" in a bold, white, sans-serif font, set against a black background that is shaped like a triangle pointing downwards and to the right.

**UMR**

# **3<sup>rd</sup> Annual Undergraduate Research Conference**

**Wednesday, April 11, 2007  
UMR Havener Center**

- Approximately 60 UMR undergraduates will present their research findings in both oral and poster sessions at the conference. In addition, students compete for cash prizes in nine separate research categories.
- In addition to the oral and poster presentations, activities will include a keynote luncheon address and an experiential learning showcase. The conference is free and open to all UMR students, faculty and staff. For more information, contact the Office of Undergraduate and Graduate Studies at 341-7600 or visit the conference web site at <http://www.umn.edu/ugs/UGRC.html> .



**UMR**

# **SCHOOL OF EXTENDED LEARNING**



**UNIVERSITY OF  
MISSOURI-ROLLA**

# **School of Extended Learning**

## **Academic Council Report**

April 2007

### **International Student Enrollment**

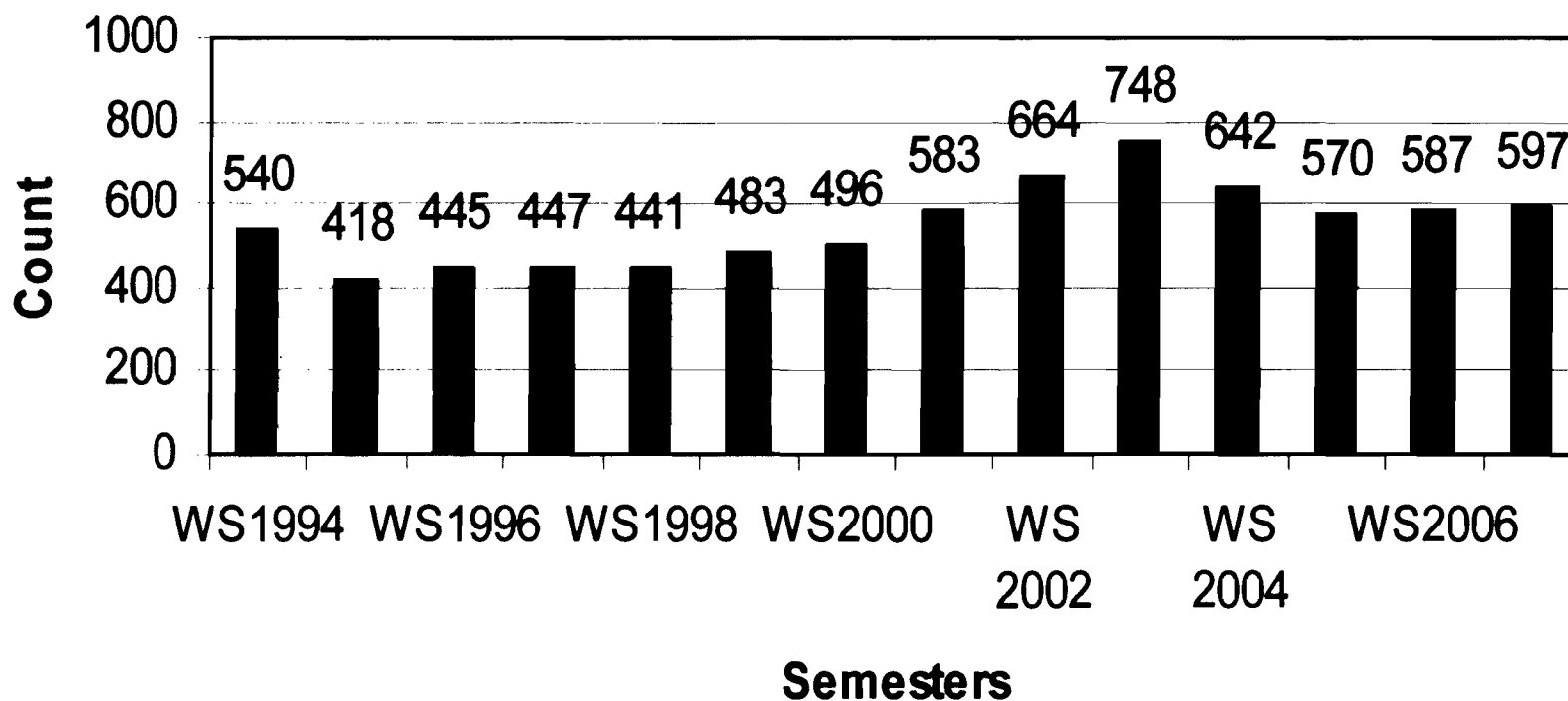
- The following two slides describe the international student enrollment picture at UMR.
- The first slide reveals a slight increase in total enrollment for the current winter semester compared to the same time period last year.
- The second slide indicates a substantial drop in new student enrollment compared with WS 2006. If this trend continues, the result will be a significant drop in total enrollment of foreign students at UMR.
  - » This drop mirrors a recent national trend.
  - » However, the magnitude of the drop at UMR is higher than the national average as other universities have moved more aggressively than UMR to increase international recruiting efforts.
- Departments are urged to use existing relationships with their foreign colleagues to promote UMR as the US destination of choice for students wishing to study in the US.

# School of Extended Learning

## Academic Council Report

April 2007

### International Student Enrollment Winter Semesters

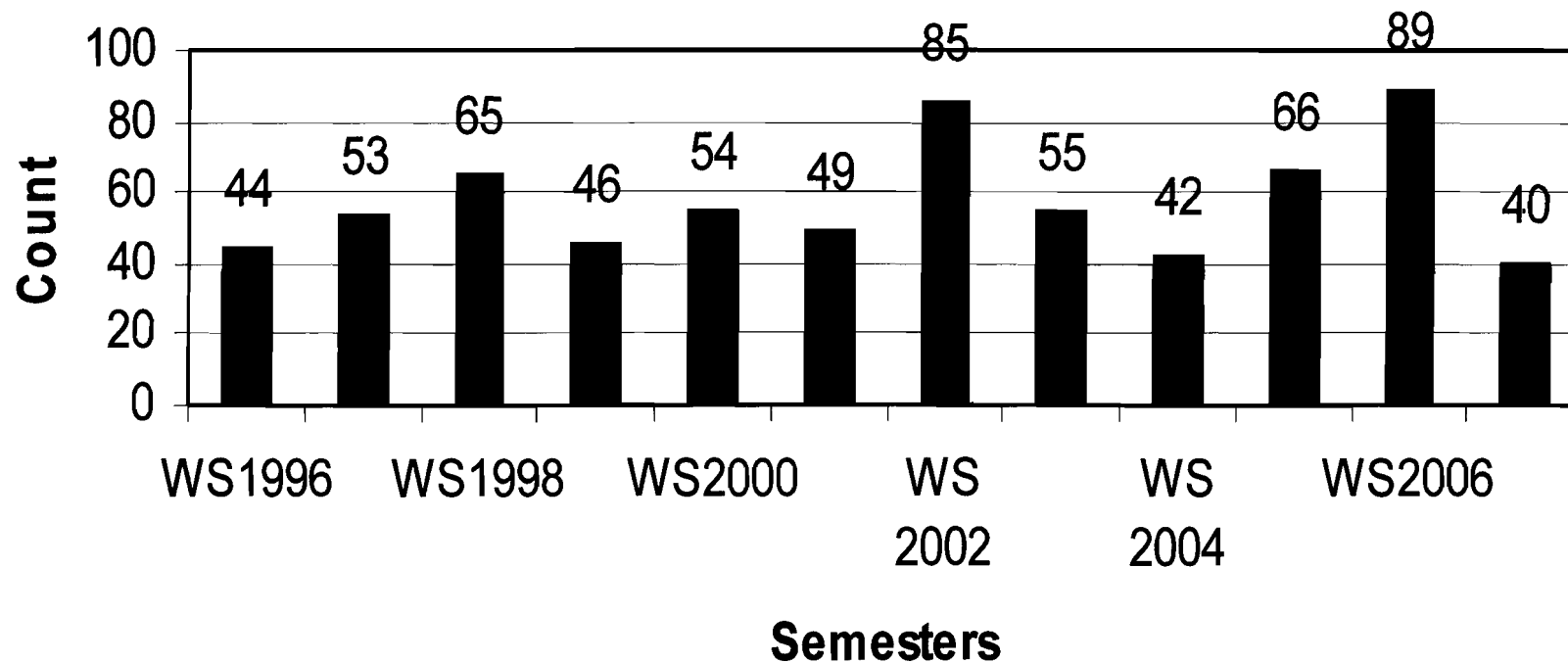


# School of Extended Learning

## Academic Council Report

April 2007

### New International Student Enrollment Winter Semesters



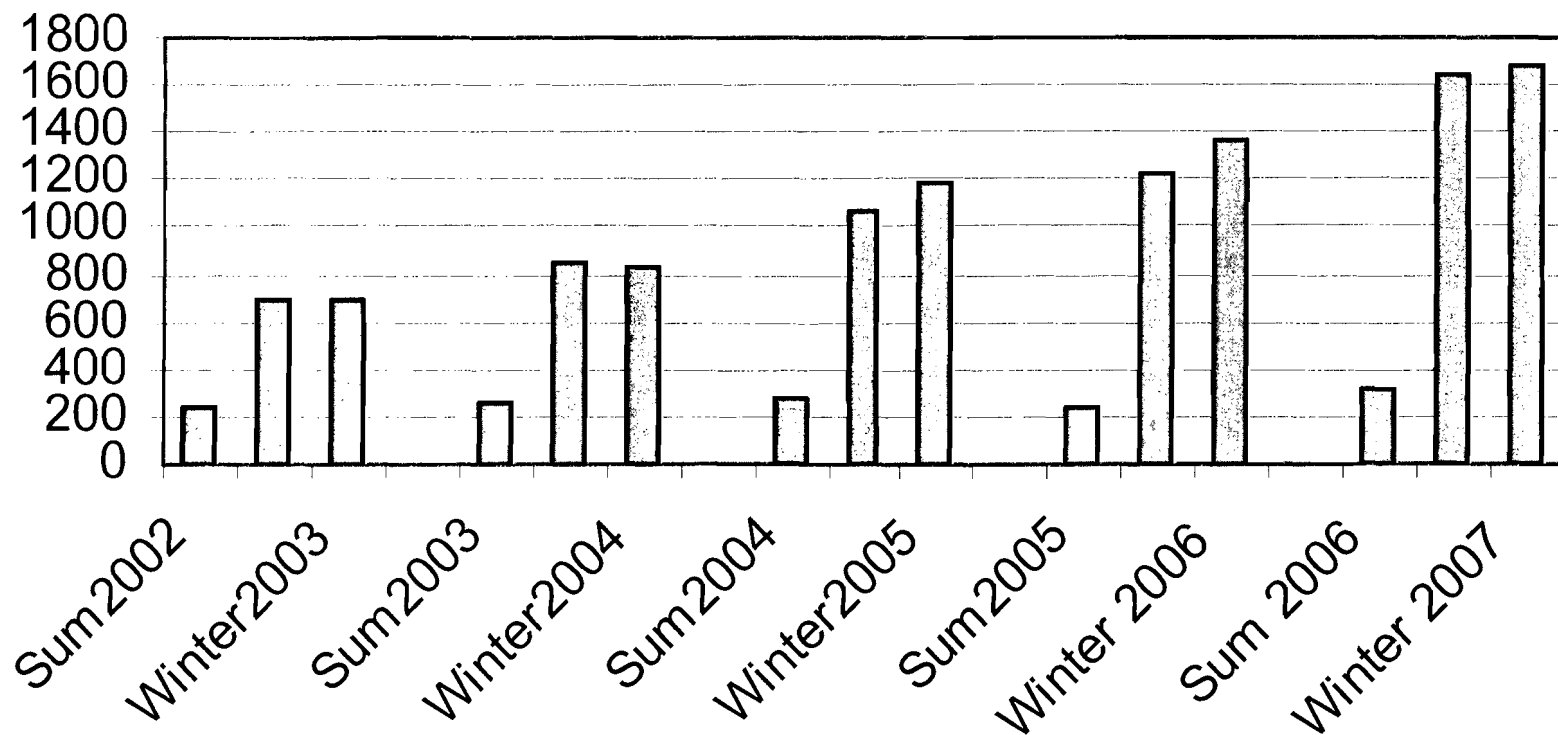


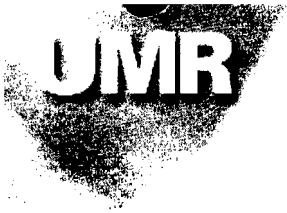
# School of Extended Learning

## Academic Council Report

April 2007

### Distance Student Credit Hours





## **School of Extended Learning**

### **Academic Council Report**

April 2007

## **Engineering Education Center**

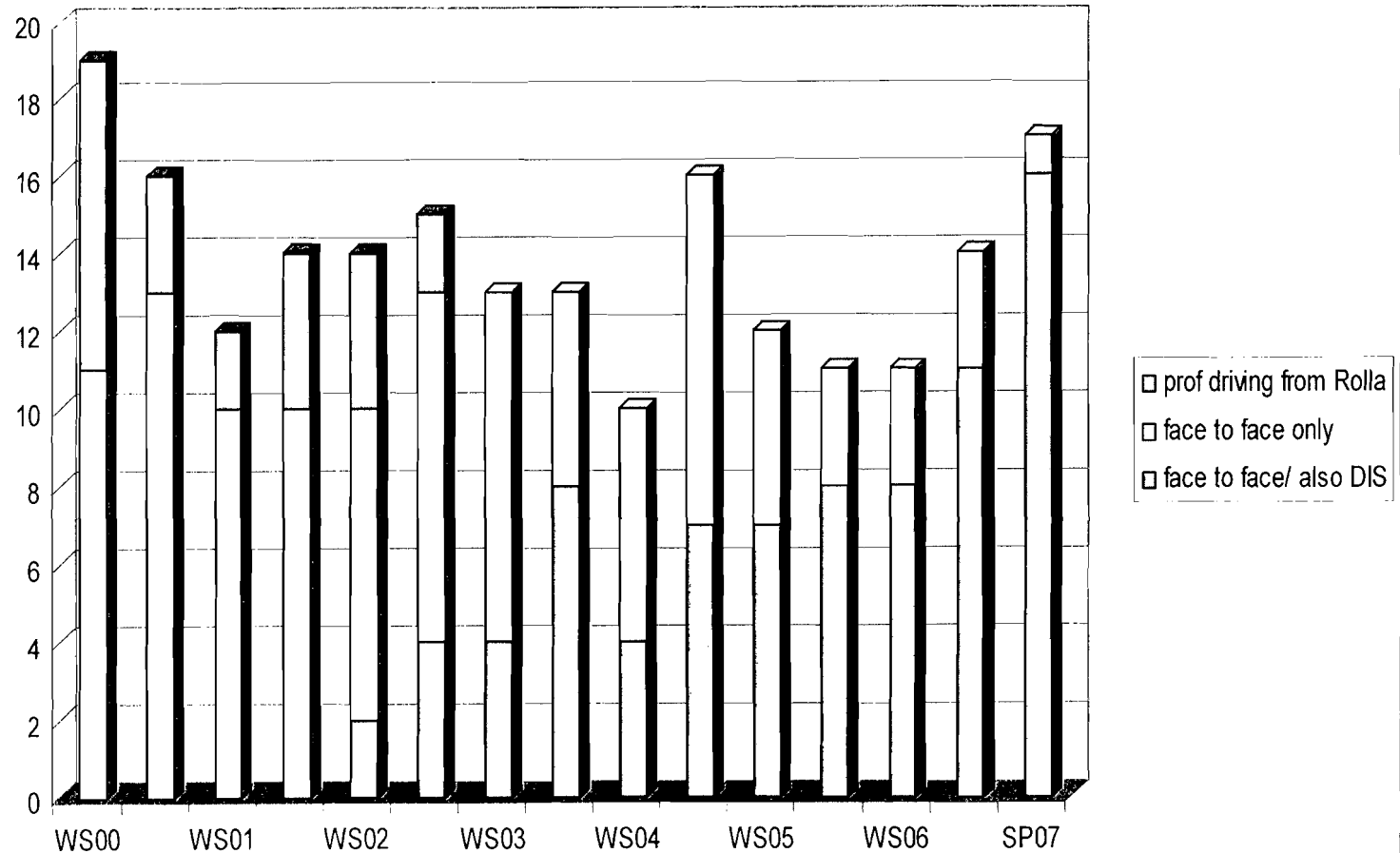
- The graph, on the next page, indicates the changing nature of the Engineering Education Center mission. In the decades of the 70s and 80s it consisted almost exclusively of Rolla faculty driving to St. Louis to teach face-to-face (F2F) courses. Today, more qualified adjunct faculty are used and there is an increasing trend of broadcasting distance courses to the UMR campus where they are used both for on campus students and also rebroadcast for a broader audience throughout the world.





# School of Extended Learning

Number of Classes Taught  
from the  
UMR Engineering Education Center  
St. Louis



# **School of Extended Learning**

## **Academic Council Report**

April 2007

- As reported in the January 2007 Academic Council report, UMR's first Blended Learning opportunity is now underway. Dr. Doug Carroll is simultaneously teaching one section of IDE 110: Mechanics of Materials to UMR residential students in a traditional class setting, another section to UMR residential students using distance education technology, and a third to off-campus students. While the evaluation process is not yet complete, Doug has noticed an increase in student enthusiasm and the use of his "Office Hours" which are conducted over the internet.
- Doug has spoken to several groups of faculty regarding this experience and is willing to speak to other groups if sufficient interest exists.



**UMR**

# **INFORMATION TECHNOLOGY**



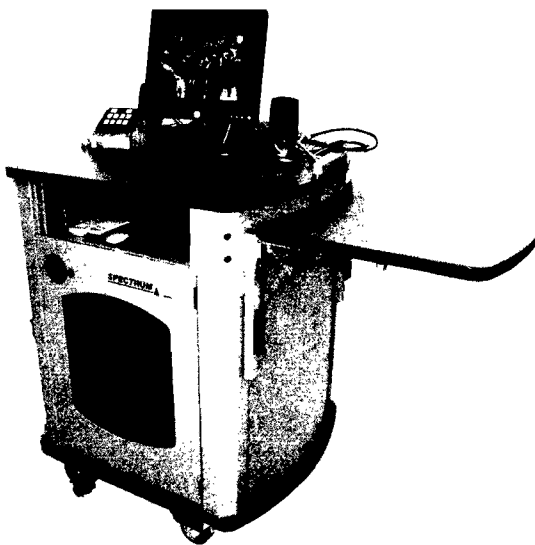
**UNIVERSITY OF  
MISSOURI-ROLLA**

# Information Technology

## Classroom Foundational Technology

Fall Semester 2006 COMPLETE - 60% of centrally scheduled classrooms (53 out of 87) have been outfitted with a standard technology package to support multimedia teaching needs.

**Fall Semester 2007 UNDERWAY** - The remaining 40% of centrally scheduled classrooms will be completed. *Please visit <http://campus.umr.edu/it/services/tcschedule.html> for the complete deployment schedule.*)



*(Example image – setup in each room may vary.)*

# Information Technology

## Desktop Enhancement

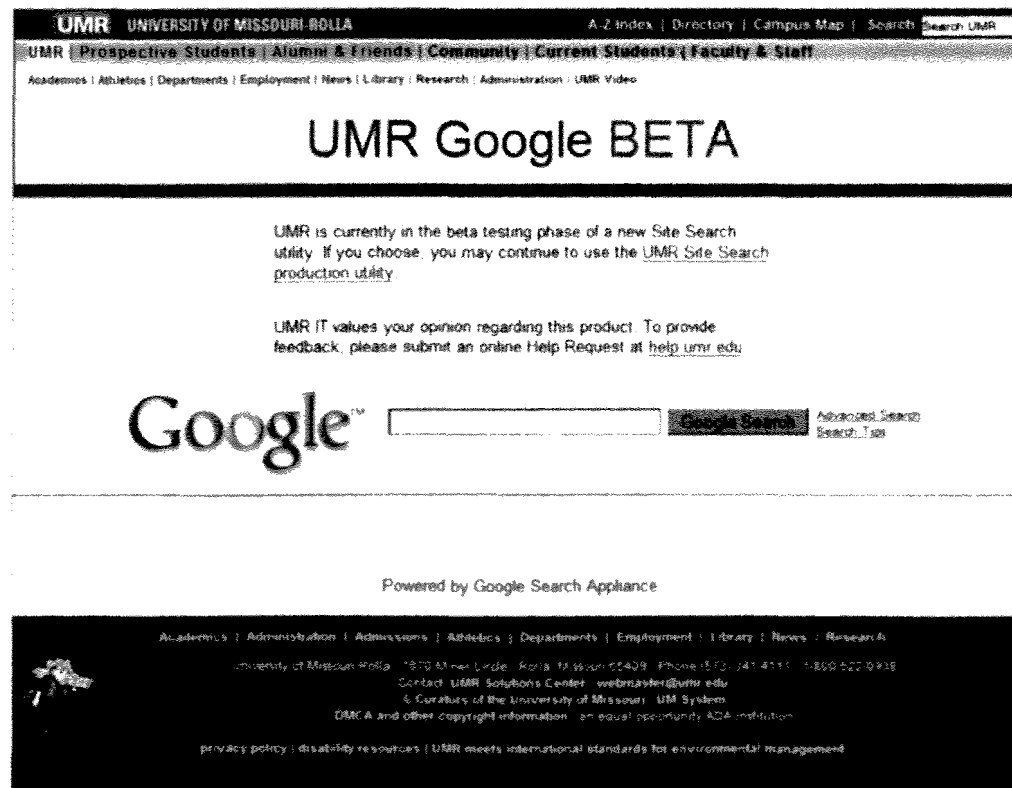
- FY2006 complete with 320 machines deployed
- **FY2007 progressing with 109 machines deployed**
- 348 total machines redeployed to graduate students, part-time employees, etc.



# Information Technology

## Google Site Search Beta – Implemented late February 2007

- Enhanced site search functionality






# Information Technology

## MinerNet Information Network pilot – Implemented mid March 2007

- Locations in the Havener Center and the Civil Engineering Building have been outfitted with multimedia equipment that will allow for the dissemination of student centric information such as MinerTV, news, event announcements and weather. *(Want to know what's happening on campus next week? MinerNet will keep you informed.)*


Golden Dragon Aerobats  
Asian Arts Productions



**Campus Performing Arts Series**

Monday, February 5 at Leach Theatre  
\$28 adults/\$18 youth

**Today**



21 F  
Clear  
Wind: S at 8 mph  
Humidity: 93%

43 F / 26 F

**rollaweather**

**Resume & Cover Letter Writing Workshop**  
5:00 pm at 306 Norwood

**Free Film Series - "Science of Sleep"**  
7:00 pm at Leach Theatre

**umrevents**

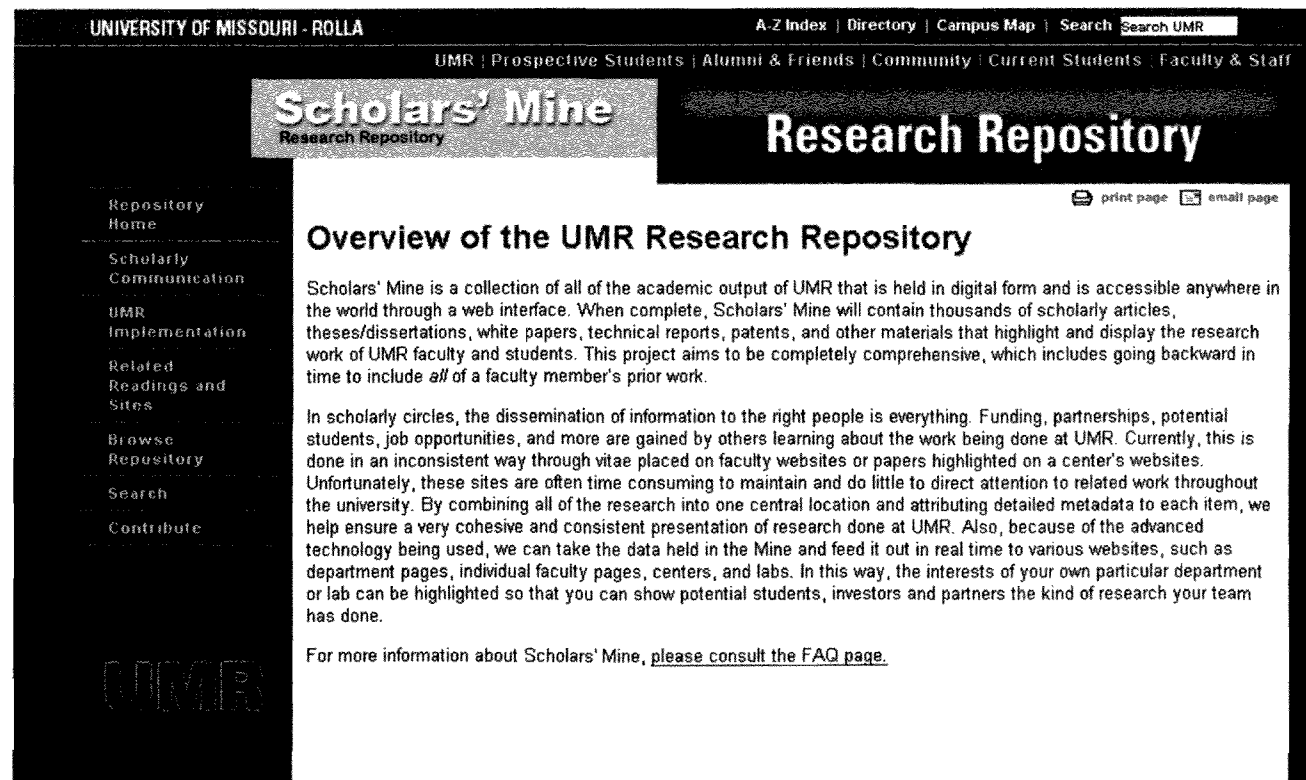
MinerNet

river says he was partly swallowed by shark · Man arrested for smuggling 500 pai

# Information Technology

## Research Repository – Coming early April 2007

- Showcase & market UMR Research to internal and external research communities



The screenshot shows the homepage of the UMR Research Repository. The header includes the University of Missouri - Rolla logo and navigation links: A-Z Index, Directory, Campus Map, Search, and Search UMR. Below the header, there are links for UMR, Prospective Students, Alumni & Friends, Community, Current Students, and Faculty & Staff. The main content area features the 'Scholars' Mine Research Repository' logo and a 'Research Repository' title. A sidebar on the left contains links: Repository Home, Scholarly Communication, UMR Implementation, Related Readings and Sites, Browse Repository, Search, and Contribute. The main text area is titled 'Overview of the UMR Research Repository' and contains two paragraphs of text. The first paragraph describes the repository as a collection of academic output accessible worldwide. The second paragraph discusses the dissemination of information in scholarly circles. At the bottom, there is a link to the FAQ page.

UNIVERSITY OF MISSOURI - ROLLA

A-Z Index | Directory | Campus Map | Search Search UMR

UMR | Prospective Students | Alumni & Friends | Community | Current Students | Faculty & Staff

**Scholars' Mine**  
Research Repository

**Research Repository**

print page email page

### Overview of the UMR Research Repository

Scholars' Mine is a collection of all of the academic output of UMR that is held in digital form and is accessible anywhere in the world through a web interface. When complete, Scholars' Mine will contain thousands of scholarly articles, theses/dissertations, white papers, technical reports, patents, and other materials that highlight and display the research work of UMR faculty and students. This project aims to be completely comprehensive, which includes going backward in time to include *all* of a faculty member's prior work.

In scholarly circles, the dissemination of information to the right people is everything. Funding, partnerships, potential students, job opportunities, and more are gained by others learning about the work being done at UMR. Currently, this is done in an inconsistent way through vitae placed on faculty websites or papers highlighted on a center's websites. Unfortunately, these sites are often time consuming to maintain and do little to direct attention to related work throughout the university. By combining all of the research into one central location and attributing detailed metadata to each item, we help ensure a very cohesive and consistent presentation of research done at UMR. Also, because of the advanced technology being used, we can take the data held in the Mine and feed it out in real time to various websites, such as department pages, individual faculty pages, centers, and labs. In this way, the interests of your own particular department or lab can be highlighted so that you can show potential students, investors and partners the kind of research your team has done.

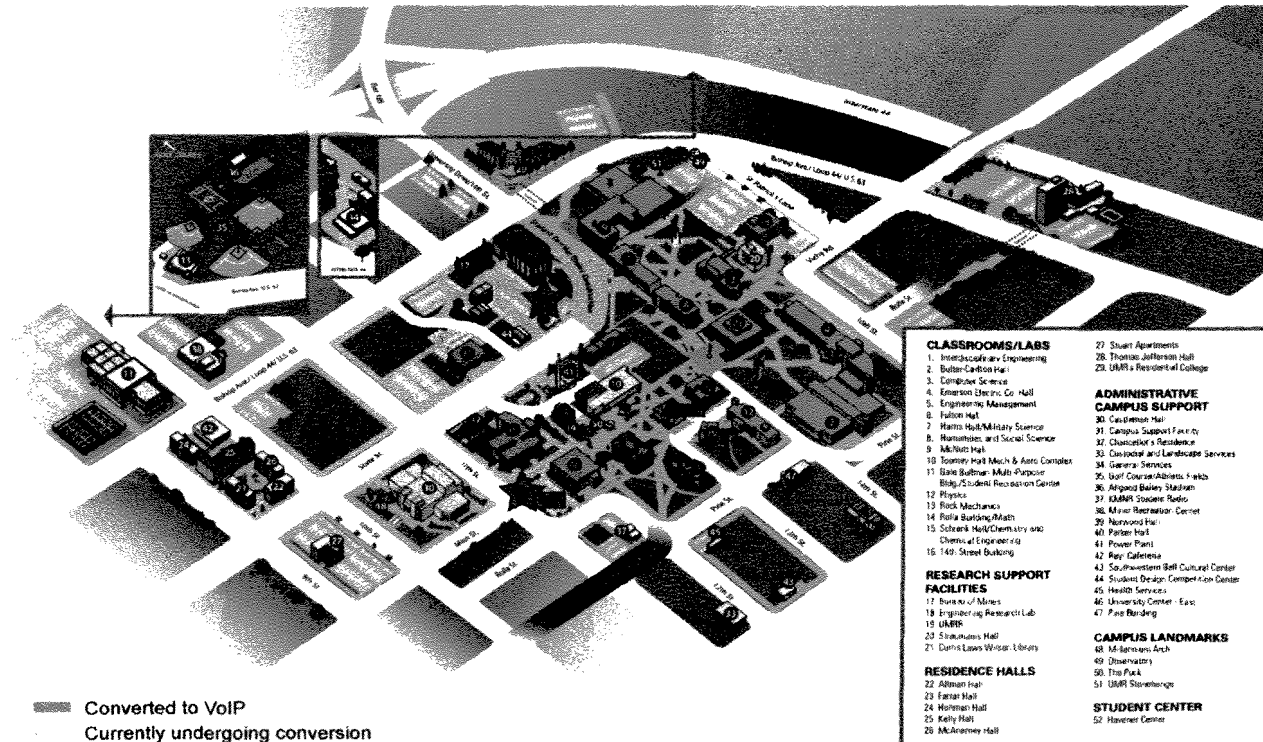
For more information about Scholars' Mine, [please consult the FAQ page.](#)

UMR

# Information Technology

## Voice-Over IP Telephony

- Over 1,200 VoIP phones deployed
- Physics Building converted February 28, 2007
- Materials Research Center converted March 29, 2007





**UMR**

# **SCHOOL OF ENGINEERING**



**UNIVERSITY OF  
MISSOURI-ROLLA**

## SCHOOL OF ENGINEERING

- Professor Ganesh K. Venayagamoorthy of the Electrical and Computer Engineering Department has received a 2007 ONR Young Investigator Program award. We are pretty sure that this makes Prof. Venayagamoorthy the first UMR faculty to have been awarded both an NSF CAREER award AND an ONR YIP award. Congratulations, Kumar!



**UMR**

# **COLLEGE OF ARTS AND SCIENCES**



**UNIVERSITY OF  
MISSOURI-ROLLA**

# CAS Events

1. The Campus Performing Arts Series concludes its 2006-2007 season on April 25 with the musical *Aida*. Some tickets are still available at the Box Office in Leach Theatre.
2. Phil Whitefield, Professor and Chair of Chemistry was named as a winner of the 2007 Climate Protection Award for the Joint Strike Fighter Emission Test Team.

## CAS Events (cont'd)

3. Dr. Thomas Vojta, Associate Professor of Physics, has received a grant from the Max-Planck Society in Germany to organize a 4-week long workshop and conference at the Institute in Dresden in June 2008.
4. Ron Bieniek, Associate Professor of Physics, will be an invited speaker at the Professional and Organization Development (POD) conference this June, where he will discuss UMR's *LEAD Program*.



## CAS Events (cont'd)

5. Martin Bohner, Associate Professor of Mathematics, has received notification that his NSF grant "Time Scales in Economics and Finance" has been funded in the amount of \$100K.
6. The CAS has five nominees (Norma Jane Harris, Susan Kellems, Ed Malone, Daniel Tauritz, and David Westenberg) for Outstanding Academic Advising awards. The awards will be presented at a campus reception on April 25.

## **CAS Events (cont'd)**

7. Curators' Teaching Professor Jim Bogan presented an invited lecture at Imperial College London and was also invited to a brief stay at the Cill Rialaig artist retreat in Kerry, Ireland, where he painted a mural.



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Memo To: Academic Council  
From: UMR Campus Curriculum Committee Meetings  
RE: March 6, & 20, 2007 Meetings

**The UMR Campus Curricula Committee recommends to the Academic Council that the curriculum changes and degree proposals on the following DC forms be approved.**

**Approved DC forms:**

DC 0219, College of Arts & Sciences, History, approved effective Fall 2007. A proposal to create a new emphasis area under the B.A. in History called Secondary Education.

DC 0221, School of Management & Information Systems, Economics, approved effective Fall 2007. A proposal to create a new emphasis area under the B.A. in Economics called Secondary Education.

DC 0222, College of Arts & Sciences, Mathematics, approved effective Fall 2007. A proposal to create a new emphasis area under the B.S. in Applied Mathematics called Secondary Education.

DC 0224, College of Arts & Sciences, English, approved effective Fall 2007. A proposal to create a new emphasis area under the B.A. in English called Secondary Education.

DC 0225, College of Arts & Sciences, Physics, approved effective Fall 2007. A proposal to create a new emphasis area under the B.S. in Physics called Secondary Education.

DC 0226, College of Arts & Sciences, Biological Sciences, approved effective Fall 2007. A proposal to create a new emphasis area under the B.A. in Biological Sciences called Secondary Education.

DC 0227, College of Arts & Sciences, Psychology, approved effective Fall 2007. A proposal to create a new emphasis area under the B.S. and B.A. in Psychology called Secondary Education.

DC 0228, College of Arts & Sciences, Chemistry, approved effective Fall 2007. A proposal to create a new emphasis area under the B.A. in Chemistry called Secondary Education.

DC 0231, College of Arts & Sciences, Bioinformatics Minor, approved effective Fall 2007.



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A proposal to change the required course Bio 301/Cmp 301 to Bio 311/Cmp 311 within the curriculum for the Bioinformatics Minor.

DC 0232, School of Engineering, Chemical Engineering, approved effective Fall 2007. A proposal to modify the current curriculum for the BS in Chemical Engineering.

DC 0233, School of Engineering, Architectural Engineering, approved effective Fall 2007. A proposal to modify the current curriculum for the BS in Architectural Engineering.

DC 0234, School of Engineering, Computer Engineering, approved effective Fall 2007. A proposal to modify the current curriculum for the BS in Computer Engineering.

DC 0235, School of Engineering, Electrical Engineering, approved effective Fall 2007. A proposal to modify the current curriculum for the BS in Electrical Engineering.

DC 0247, School of Engineering, Interdisciplinary Engineering, approved effective Fall 2007.

A proposal to change the current curriculum for the BS in Interdisciplinary Engineering by replacing Math 229 with Math 204.

DC 0249, SoMEER, Petroleum Engineering, approved effective Fall 2007.

A proposal to change the current curriculum for the BS in Petroleum Engineering.

DC 0251, College of Arts & Sciences, Psychology, approved effective Fall 2007. A proposal to create a new emphasis area under the B.A. in Psychology called Secondary Education.

**The UMR Campus Curricula Committee recommends to the Academic Council that the course changes on the following CC forms be approved.**

**Approved CC forms:**

CC 7152, Philosophy 223, Bioethics. New course approved effective Fall 2007.

Catalog Description: This course covers several areas of ethical interest in biotechnology, medicine, and medical care. Topics may include stem-cell research, cloning genetic engineering, reproductive issues, pharmaceutical ethics, privacy, physician-assisted suicide, patient rights, human and animal experimentation, and resource allocation.

Credit Hours: 3 hour lecture

Prerequisites: Introductory level (below 100) Philosophy course

CC 7159, English 230, Black American Literature. The following changes are approved effective Fall 2007.

Course Title – Proposed: African American Literature



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Catalog Description – Proposed: The history and development of African American literature, with special emphasis upon contemporary achievements.

CC 7160, IST 448, Building The Data Warehouse. New course approved effective Fall 2007.

Catalog Description: Data modeling and processes needed to populate a data warehouse; tradeoffs among several models and technical issues that are faced, such as security, schemas, Web access, other reporting techniques.

Credit Hours: 3 hour lecture

Prerequisites: IST 444

CC 7161, English 260, Technical Communication 260, Practicum in Technical Communication. The following change is approved effective Fall 2007.

Prerequisites – Present: Engl 65 and Engl 240 or Tch Comm 65 and Tch Comm

Proposed: English 65 or Tch Comm 65

CC 7162, Technical Communication 260, English 260, Practicum in Technical Communication. The following change is approved effective Fall 2007.

Prerequisites – Present: Engl 65 and Engl 240 or Tch Comm 65 and Tch Comm 240

Proposed: English 65 or Tch Comm 65

CC 7163, Management Systems 1, Introduction to Management Systems. Course deletion approved effective Fall 2007.

CC 7164, Management Systems 101, Special Topics. Course deletion approved effective Fall 2007.

CC 7165, Management Systems 397, Capstone Seminar. Course deletion approved effective Fall 2007.

CC 7166, Business 240, Basic Marketing. The following change has been approved effective Fall 2007.

Prerequisites – Present: Bus 110, Econ 121, or 122, and English 65

Proposed: None

CC 7167, IST 480, Social Informatics. The following change has been approved effective Fall 2007.

Course Title – Proposed: Web and New Media Studies

CC 7168, IST 445, Database Marketing. New course approved effective Spring 2008.

Catalog Description: Intro to methods & concepts used in database marketing: 1) predictive modeling techniques (e.g., regression, decision trees, cluster analysis) and 2) standard processes for mapping business objectives to data mining goals to



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produce a deployable marketing model. Metrics like lifetime value of a customer and ROI will be covered. Several application areas covered.

Credit Hours: 3 hour lecture

Prerequisites: Statistics understanding, programming understanding, familiarity with spreadsheets

CC 7169, IST 345, Use of Business Intelligence. New course approved effective Fall 2007.

Catalog Description: Application of “intelligent” techniques from CS (AI, data mining), and OR (stochastic modeling, simulation, forecasting) to business decision-making. Overview of theory, with a focus on application to business problem solving. Use of SAP as a tool to access and present data, search for patterns, identify exceptions, forecast, optimize, and schedule resources.

Credit Hours: 3 hour lecture

Prerequisites: IST 346 or Bus 326 or Bus 420 or (IST 246 previously, and IST 346 or Bus 326 concurrently)

CC 7170, IST 349, ERP System Administration. New course approved effective Summer 2007.

Catalog Description: System administration and performance monitoring practices for an Enterprise Resource Planning (ERP) system will be studied. Students will install an instance of an ERP system and establish user management attributes and system security.

Credit Hours: 3 hour lecture

Prerequisites: IST 346 or Bus 326 or Bus 420 or (IST 246 previously, and IST 346 or Bus 326 concurrently)

CC 7171, IST 347, Business 366, Supply Chain Management Systems. The following change is approved effective Fall 2007.

Prerequisites – Present: IST 346/Bus 326

Proposed: IST 346 or Bus 326 or Bus 420 or (IST 246 previously, and IST 346 or Bus 326 concurrently)

CC 7172, IST 348, Business 386, Strategic Enterprise Management Systems. The following change is approved effective Fall 2007.

Prerequisites – Present: IST 346/Bus 326

Proposed: IST 346 or Bus 326 or Bus 420 or (IST 246 previously, and IST 346 or Bus 326 concurrently)

CC 7173, IST 446, Business 446, Enterprise Resource Planning: Systems Config and Integration. The following change is approved effective Summer 2007.

Prerequisites – Present: IST 346/Bus 326



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Proposed: IST 346 or Bus 326 or Bus 420 or (IST 246 previously, and IST 346 or Bus 326 concurrently)

CC 7174, Biological Sciences 311, Computer Science 311, Bioinformatics. The following change is approved effective Fall 2007.

Prerequisites – Present: Junior Standing or Above

Proposed: Bio 110 or 111 and Cmp Sc 53/54 or 74/78

CC 7175, English 230, Black American Literature. The following changes are approved effective Fall 2007.

Course Title – Proposed: African American Literature

Catalog Description – Proposed: The history and development of African American literature, with special emphasis upon contemporary achievements.

CC 7176, Civil Engineering 456, Traffic Modeling and Simulation. New course approved effective Fall 2007.

Catalog Description: Fundamentals of system simulation, components of a simulation model, traffic flow simulation approaches, traffic flow simulation software and their applications, building simulation models, verification and validation of a simulation model, output analysis, variance reduction techniques, role of simulation in Intelligent Transportation Systems (ITS).

Credit Hours: 3 hour lecture

Prerequisites: Stat 213, CE 211, preceded or accompanied by CE 353

CC 7177, Computer Engineering 111, Introduction to Computer Engineering. The following change is approved effective Fall 2007.

Prerequisites – Present: Preceded or accompanied by Comp Sci 53, 73, or 74. Comp Eng 112 is also a co-requisite for Comp Eng and El Eng majors

Proposed: Sophomore standing, Cp Eng 112 is also a co-requisite for Cp Eng and El Eng majors

CC 7178, Computer Engineering 213, Digital System Design. The following changes are approved effective Fall 2007.

Catalog Description – Proposed: Microcontroller-based digital system design methodology and techniques. Topics include basic machine organization, interface design, and C and assembly language programming for real-time embedded systems.

Prerequisites – Present: Cp Eng 111 and Cmp Sc 53, or Cmp Sc 74, or equivalent

Proposed: Cp Eng 111 and Cp Sc 53 (or programming equivalent) each with grade of “C” or better

CC 7179, Computer Engineering 214, Digital Engineering Lab II. The following change is approved effective Fall 2007.



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**Prerequisites – Present:** Cp Eng 111 and Cmp Sc 112. Simultaneous enrollment in Cp Eng 213.

**Proposed:** Cp Eng 111, Cp Eng 112, and Cp Sc 53 (or programming equivalent) each with grade of “C” or better. Preceded or accompanied by Cp Eng 213, El Eng 121 and El Eng 122.

**CC 7180, Computer Engineering 215, Computer Organization and Design.** New course approved effective Fall 2007.

**Catalog Description:** Introduction to basic concepts of computer organization and design: metrics for computer performance, computer arithmetic, Von Neuman architecture, instruction implementation, control unit, pipelining, memory systems hierarchy, cache memories and basic I/O controllers.

**Credit Hours:** 3 hour lecture

**Prerequisites:** Cp Eng 111. Should be preceded or accompanied by Cp Eng 213

**CC 7181, EE 121, Introduction to Electronic Devices.** New course approved effective Fall 2007.

**Catalog Description:** Materials and device structures for applications in analog and digital electronics. Topics include characteristics and basic circuits for diodes, field-effect transistors, bipolar junction transistors, and operational amplifiers.

**Credit Hours:** 3 hour lecture

**Prerequisites:** El Eng 151, El Eng 152, and Physics 24 with grade of “C” or better; passing the El Eng Advancement Exam I. Students should enroll in El Eng 121 and El Eng 122 simultaneously.

**CC 7182, EE 122, Electronic Devices Laboratory.** New course approved effective Fall 2007.

**Catalog Description:** Laboratory tools and measurement techniques for basic electronic circuits using diodes, field effect transistors, bipolar junction transistors, and operational amplifiers. Topics include DC biasing and applications in analog and digital electronics.

**Credit Hours:** 1 hour lab

**Prerequisites:** El Eng 151, El Eng 152, and Physics 24 with grade of “C” or better; passing the El Eng Advancement Exam I. Preceded or accompanied by El Eng 121.

**CC 7183, EE 153, Circuits II.** The following change is approved effective Fall 2007.

**Prerequisites – Present:** Both Math 22 and El Eng 151 with a grade of “C” or better. Passing grade on EE Advancement Exam I. Student should enroll in Ele Eng 153 and 154 simultaneously.

**Proposed:** El Eng 151 and Math 22 each with grade of “C” or better; passing the El Eng Advancement Exam I.





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CC 7184, EE 231, Control Systems. The following change is approved effective Fall 2007.

Prerequisites – Present: El Eng 265

Proposed: El Eng 217 with a grade of “C” or better

CC 7185, EE 235, Controllers for Factory Automation. The following change is approved effective Fall 2007.

Prerequisites – Present: Cp Eng 111, El Eng 153

Proposed: El Eng 153 and Cp Eng 111 each with a grade of “C” or better

CC 7186, EE 243, Communication Systems. The following change is effective Fall 2007.

Prerequisites – Present: El Eng 265

Proposed: El Eng 217 with a grade of “C” or better

CC 7187, EE 253, Electronics I. The following change is effective Fall 2007.

Prerequisites – Present: El Eng 153 with a grade of “C” or better and Cp Eng 112.

Passing grade on EE Advancement Exam II. El Eng 255 is a co-requisite.

Proposed: El Eng 153, El Eng 121, El Eng 122, and Cp Eng 111 each with a grade of “C” or better. Passing grade on EE Advancement Exam II and III. El Eng 255 is a co-requisite.

CC 7188, EE 254, Electronics II. The following changes are effective Fall 2007.

Catalog Description – Proposed: Continuation of El Eng 253. Diode and transistor circuits, small signal analysis, amplifier design, differential and operational amplifiers, flip flop circuits and wave shaping.

Prerequisites – Present: El Eng 253 and El Eng 255. Co-req El Eng 256

Proposed: El Eng 253 and El Eng 255 each with a grade of “C” or better. El Eng 256 is a co-requisite.

CC 7189, EE 255, Electronics I Laboratory. The following change is approved effective Fall 2007.

Prerequisites – Present: El Eng 153 with a grade of “C” or better and Cp Eng 112.

Passing grade on EE Advancement Exam II. El Eng 253 is a co-requisite.

Proposed: El Eng 153, El Eng 121, El Eng 122, and Cp Eng 111 each with a grade of “C” or better. Passing grade on EE Advancement Exam II and III. El Eng 253 is a co-requisite.

CC 7190, EE 256, Electronics II Laboratory. The following change is approved effective Fall 2007.

Prerequisites – Present: El Eng 253 and El Eng 255. El Eng 254 is a co-requisite

Proposed: El Eng 253 and El Eng 255 each with a grade of “C” or better. El Eng 254 is a co-requisite.



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CC 7191, EE 215, Discrete Linear Systems. New course approved effective Fall 2007.

Catalog Description: Analysis methods for discrete-time signals and systems in the time and frequency-domains including signal models and Fourier techniques.

Continuous-time concepts are included as introductory material.

Credit Hours: 3 hour lecture

Prerequisites: El Eng 153 with grade of "C" or better; passing the El Eng Advancement Exam II. Students should enroll in El Eng 215 and co-requisite of El Eng 216

CC 7192, EE 216, Discrete Linear Systems Laboratory. New course approved effective Fall 2007.

Catalog Description: Software tools for signal and system representation and for time and frequency-domain systems analysis.

Credit Hours: 1 hour lab

Prerequisites: El Eng 153 with grade of "C" or better; passing the El Eng Advancement Exam II. Preceded or accompanied by El Eng 215 and co-requisite of El Eng 216

CC 7193, EE 217, Continuous Linear Systems. New course approved effective Fall 2007.

Catalog Description: Analysis methods for continuous-time signals and systems in the time and frequency domains including signal models, Fourier transforms, and Laplace transforms. Examples of control and communication systems are included.

Credit Hours: 3 hour lecture

Prerequisites: El Eng 215, El Eng 216, and Math 204 each with grade of "C" or better. Students should enroll in El Eng 217 and a co-requisite of El Eng 218

CC 7194, EE 218, Continuous Linear Systems Laboratory. New course approved effective Fall 2007.

Catalog Description: Laboratory and software tools for the analysis of linear and non-linear systems. Topics include spectral analysis, transforms, and applications.

Credit Hours: 1 hour lab

Prerequisites: El Eng 215, El Eng 216, and Math 204 each with grade of "C" or better. Co-requisite of El Eng 217

CC 7195, EE 271, Electromagnetics. The following change is approved effective Fall 2007.

Prerequisites – Present: El Eng 153, El Eng 152, Physics 24, and Math 204 with a grade of "C" or better. Passing grade on EE Advancement Exam II. El Eng 272 is a co-requisite.

Proposed: El Eng 153, El Eng 152, Physics 24, and Math 204 each with a grade of "C" or better. Passing grade on EE Advancement Exam II. El Eng 272 is a co-requisite.

CC 7196, EE 272, Electromagnetics Laboratory. The following change is approved effective Fall 2007.



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Prerequisites – Present: El Eng 153, Physics 24, and Math 204 with a grade of “C” or better, El Eng 154, and a passing grade on EE Advancement Exam II. El Eng 271 is a co-requisite.

Proposed: El Eng 153, El Eng 152, Physics 24, and Math 204 each with a grade of “C” or better. Passing grade on EE Advancement Exam II. El Eng 271 is a co-requisite.

CC 7197, EE 409, Electric and Hybrid Vehicles, New course approved effective Fall 2007.

Catalog Description: This course covers an entire range of topics related to analysis, design, control, and optimization of electric, hybrid, and plug-in hybrid power trains including automotive applications of adjustable speed motor drives, energy storage systems, and advanced power converters.

Credit Hours: 3 hour lecture

Prerequisites: EE 305 or EE 353

CC 7198, IST 480, Social Informatics. The following change is approved effective Fall 2007.

Course Title – Proposed: Web and New Media Studies

CC 7201, Engineering Management 207, Analysis of Engineering Projects. New course approved effective Fall 2007.

Catalog Description: This course covers engineering project analysis from an engineering economics perspective. Topics will include: interest, equivalent worth, comparing alternatives, rate of return methods, depreciation and taxes, inflation and price changes, and benefit-cost analysis.

Credit Hours: 2 hour lecture

Prerequisites: None

CC 7202, Engineering Management 458, Case Studies in Project Management New course approved effective Fall 2007.

Catalog Description: Includes the main components of the Project Management Institute (PMI) Body of Knowledge; case studies in project management including project implementation, organizational structures, project estimating, project scheduling, project risk management, and conflict management.

Credit Hours: 3 hour lecture

Prerequisite: EMgt 361

CC 7203, Engineering Management 461, Global Project Management. New course effective Spring 2008.

Catalog Description: In depth and advanced topics in project management including project management methodologies, strategic planning for excellence, project



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portfolio management, integrated processes, culture, and behavioral excellence;  
normally includes a hands-on group project.

Credit Hours: 3 hour lecture

Prerequisites: EMgt 361

CC 7210, IDE 425, Systems Engineering 425, Function-Based Risk Analysis. New course approved effective Fall 2007.

Catalog Description: Risk analysis of products and systems will be explored using product functionality as the starting point. Traditional probabilistic risk assessment techniques will be covered along with recent approaches that use historical data to produce automatic risk assessments.

Credit Hours: 3 hour lecture

Prerequisites: Graduate Standing

CC 7211, Electrical Engineering 351, Advanced Electronic Circuits. The following change is approved effective Fall 2007.

Catalog Description – Proposed: Application of feedback theory, oscillators and frequency standards, precision analog techniques, low-power circuit design, interfacing sensors, designing for high reliability, electronics for harsh environments.

CC 7212, IDE 106, Design Perceptions. The following change is approved effective Fall 2007.

Catalog Description – Proposed: Examines how products and machines work; physical operation, construction, and design and societal considerations determining success or failure in the marketplace. Communication skills, teamwork and personal portfolios will be emphasized.

CC 7213, Geophysics 361, Geological Engineering 361, Transportation Applications of Geophysics. New course approved effective Fall 2007.

Catalog Description: Overview of geophysical and non-destructive test methods that are commonly used to investigate transportation structures and their foundations. Emphasis is placed on bridge system substructure, bridge system superstructure, pavements, roadway subsidence, subsurface characterization and vibration measurements.

Credit Hours: 2 hour lecture, 1 hour lab, Total: 3

Prerequisites: Junior level standing or higher

CC 7214, Geophysics 488, Seismic Interpretation. The following change is approved effective Fall 2007.

Course Title – Proposed: Advanced Seismic Interpretation



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CC 7215, Petroleum Engineering 141, Properties of Petroleum Fluids. The following change is approved effective Fall 2007.

Course Number – Proposed: 240

CC 7216, Petroleum Engineering 241, Petroleum Reservoir Engineering. The following change is approved effective Fall 2007.

Catalog Description – Proposed: Properties of reservoir formations and fluids; reservoir volumetrics, reservoir statistics, reservoir dynamics. Darcy's law and the mechanics of single and multiphase fluid flow through reservoir rock, capillary phenomena, material balance, reservoir drive mechanisms. Elementary immiscible displacement.

CC 7217, Petroleum Engineering 257, Petroleum Valuation and Economics. The following changes are effective Fall 2007.

Course Number – Proposed: 357

Course Title – Proposed: Petroleum Economics and Asset Valuation

Catalog Description – Proposed: Uncertainty in the estimation of oil and gas reserves; tangible and intangible investment costs; depreciation; evaluation of producing properties; federal income tax considerations; chance factor and risk determination. Petroleum economic evaluation software is introduced.

Credit Hours – Present: 2 hour lecture, 1 hour lab, Total: 3

Proposed: 3 hour lecture

CC 7218, Petroleum Engineering 131, Drilling Practices and Well Completions. The following changes are approved effective Fall 2007.

Course Number – Proposed: 331

Course Title – Proposed: Drilling and Well Design

Catalog Description – Proposed: This course covers drilling fluids, including mixing and analysis of rheological properties; pressure loss calculations; casing design; well cementing; pore pressure and geomechanical considerations in drilling; completion equipment, and completion design.

Prerequisites – Present: Math 21 (or 15) and Physics 23

Proposed: IDE 110; preceded or accompanied by Civ Eng 230

CC 7219, Petroleum Engineering 121, Petroleum Introduction and Communications. The following changes are approved effective Fall 2007.

Course Title – Proposed: Introduction to Oil Well Drilling

Catalog Description – Proposed: Introduction to the fundamentals of oil and gas well drilling. Fundamental physical principles and calculations used in drilling. Exposure to oil well drilling training software.

Credit Hours – Present: 2 hour lecture

Proposed: 1 hour lecture



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CC 7220, Petroleum Engineering 316, Production Applications. The following changes are approved effective Fall 2007.

Course Title – Proposed: Well Performance and Production Systems

Catalog Description – Proposed: Introduction to the producing wellbore system; inflow performance relationships, effect of formation damage on well flow, nodal systems analysis; perforating methods and their effect on inflow; stimulation treatments to enhance well performance. Introduction to well completions, diagnostics and well servicing. Overview of production systems.

CC 7221, Geological Engineering 315, Statistical Methods in Environmental Geology and Engineering. The following changes are approved effective Fall 2007.

Course Title – Proposed: Geostatistical Methods in Engineering and Geology

Catalog Description – Proposed: Study of statistical methods in engineering and geological applications including site investigations and environmental data analysis. Introduction to spatial correlation analysis and geostatistical techniques such as kriging for resource evaluation and estimation.

CC 7222, Geology 340, Petroleum Geology. The following change is approved effective Fall 2007.

Prerequisites – Present: Geology 220

Proposed: Geology 51 or GE 50

CC 7223, Geology 332, Depositional Systems. The following changes are approved effective Fall 2007.

Catalog Description – Proposed: Development of three dimensional depositional models using Walther's Law, Walther's Warning and seismic stratigraphy. Emphasis on overall geometries and internal porosity and permeability characteristics of aquifers and hydrocarbon reservoirs. Includes 3-D models for clastic, carbonate and evaporate sequences.

Prerequisites – Present: Geology 223

Proposed: Geology 51 or GE 50

**For the information of the Academic Council, the following EC forms have been submitted by the University departments for an experimental course that will be offered in the near future.**

**Approved EC forms:**

EC 1906, Technical Communication 301, Proposal Writing, approved effective Fall 2007.

Course Description: A focus on the proposal as a fundamental aspect of corporate, government and academic institutions, with emphasis on the conventions and rhetorical elements of the proposal genre.

Credit Hours: 3 hour lecture



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Prerequisites: English 65

EC 1908, Biological Sciences 101, Introductory Genetics, approved effective Fall 2007.

Course Description: This class is intended for non majors interested in learning about genetics. Students will explore the questions; What are genes? How do our genes affect our health? How are genes inherited? What are the societal implications of genetic knowledge? What is the Human Genome Project and what can we learn from it? (Does not fulfill requirement for Biology majors)

Credit Hours: 3 hour lecture

Prerequisites: None

EC 1914, Music 101, Art 101, Music/Opera and Art of Northern New Mexico, approved effective Summer 2007.

Course Description: One week of classes in preparation for travel to Santa Fe, NM to study art museums, area artists, view opera rehearsal/performance and chamber music concerts. Evaluations done through 10-12 page report upon return and quizzes before trip.

Credit Hours: 3 hour lecture

Prerequisites: None

EC 1917, Geophysics 201, Introduction to Geophysics, approved effective Fall 2007.

Course Descriptions: An introduction to a broad area of solid earth geophysics and exploration geophysics. Topics include plate tectonics, earthquake study, structure and dynamics of the Earth's deep interior, gravity, magnetism, heat flow, and geophysical exploration for natural resources.

Credit Hours: 3 hour lecture

Prerequisites: Physics 31, Geology 50

EC 1919, Civil Engineering 301, Introduction to Traffic Simulation Models, approved effective Fall 2007.

Course Description: Fundamentals of system simulation, components of a simulation model, traffic flow simulation approaches, application of traffic flow simulation software to intersections, arterials, work zones and networks, output analysis, and simulation of Intelligent Transportation Systems (ITS)

Credit Hours 3 hour lecture

Prerequisites: Stat 213, CE 211, preceded or accompanied by CE 353

EC 1920, Computer Engineering 401, Electrical Engineering 401, Systems Engineering 401, Wireless Adhoc and Sensor Networks, approved effective Fall 2007.

Course Description: Introduction to adhoc and sensor networks, IEEE standards, heterogeneity, quality of service, wireless channel issues, energy awareness, power and topology control, routing, scheduling, rate adaptation, self-organization,



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admission and flow control, energy harvesting, security and trust levels, hardware and applications.

Credit Hours: 3 hour lecture

Prerequisites: Cp Eng 301 (Wireless Networks) or Cp Eng 349 or equivalent

EC 1921, Electrical Engineering 401, Wireless Communications, approved effective Fall 2007.

Course Description: Introduction to the principle of wireless communications in modern cellular and satellite communication systems. Topics include; wireless channel characteristics, cellular concepts, capacity analysis, transceiver architectures, diversity techniques, multiple access schemes, practical wireless systems, and wireless networks.

Credit Hours: 3 hour lecture

Prerequisites: EE 343 and (EE 344 or Stat 343)

EC 1922, Physics 301, Transport in Nanostructures: An Introduction, approved effective Spring 2008.

Course Description: The course overviews how wave interference, energy quantization and tunneling phenomena influence the wave (electron and light) transport in modern nanostructured materials and devices such as quantum dots, quantum wells, quantum wire and photonic crystals.

Credit Hours: 3 hour lecture

Prerequisites: Physics 107 or Physics 207

EC 1924, Computer Science 301, Agile Software Development, approved effective Fall 2007.

Course Description: Understand principles of agile software development and contrast them with prescriptive processes. Specifically: Eliciting, organizing, and prioritizing requirements; Design, Implementation, Test processes; Understands how a particular process promotes quality; Estimate costs and measure project progress and productivity. Projects will utilize agile processes.

Credit Hours: 3 hour lecture

Prerequisites: CS 206

EC 1925, Civil Engineering 101, Surveying Principles and Applications, approved effective Summer 2007.

Course Description: Surveying Fundamentals: Leveling, directions, angles, distances transverse calculations and basic adjustments. Error theory. Fundamentals of horizontal and vertical curves, state plane coordinates. Global Positioning Systems (GPS) and the U.S. Public Land Survey System.

Credit Hours: 3 hour lecture

Prerequisites: Math 4 and 6, or equivalent





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EC 1926, Business 301, International Business, approved effective Fall 2007.

Course Descriptions: This survey course will deal with business concepts, analytical processes and philosophical bases for international business operations. Emphasis is on environmental dynamics, multinational business organizations, cultural and economic constraints, unique international business practices and international operations, strategy and policy.

Credit Hours: 3 hour lecture

Prerequisites: Bus 240; Bus 110 or Bus 280

EC 1927, Engineering Management 301, Quality Philosophy: The Deming Way, approved effective Fall 2007.

Course Description: The course will cover an overview of the underlying philosophy, principles and concepts related to quality management. (Note: if you take this course, you can not take EMgt 375.)

Credit Hours: 1 hour lecture

Prerequisites: Senior or graduate standing

EC 1928, Engineering Management 301, Leadership, approved effective Fall 2007.

Course Description: This course is an examination of modern theories of personal and corporate leadership, with particular emphasis on success of organizations in industry, government and education. (Note: if you take this course, you can not take EMgt 375.)

Credit Hours: 1 hour lecture

Prerequisites: Senior or graduate standing

EC 1929, Engineering Management 301, Quality Tools, approved effective Fall 2007.

Course Description: The course will cover the quality analysis methods and processes for engineers in industry. (Note: If you take this course, you can not take EMgt 375.)

Credit Hours: 1 hour lecture

Prerequisites: Senior or graduate standing

EC 1930, Engineering Management 401, Tolerance Design, approved effective Fall 2007.

Course Description: This course is an examination of the theory and practice of allowance allocation for high quality and low cost manufacture of mass-produced consumer products, including technology intensive products, such as automobiles, trucks, military and commercial airplanes, computers and consumer electronics.

Credit Hours: 3 hour lecture

Prerequisites: EMgt 375 or equivalent

EC 1931, Chemical Engineering 301, MSE 301, Introduction to Nanomaterials, approved effective Fall 2007.

Course Description: Introduction of the fundamentals of nanomaterials and recent developments on nanomaterials. Topics include physical and chemical properties,



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synthesis, processing, and applications of nanomaterials. Example nanomaterials include nanoparticles, nanotubes, and nanowires.

Credit Hours: 3 hour lecture

Prerequisites: Ch Eng 145, or Mt Eng 125, or Chem 3

EC 1932, Chemical Engineering 301, Alternate Fuels, approved effective Fall 2007.

Course Description: Global energy outlook and available resources are discussed.

Alternative energy options and their technologies are covered. Associated environmental concerns and technologies are assessed. Special emphasis are placed on renewable energies, transportation fuels, energy efficiencies, and clean technologies.

Credit Hours: 3 hour lecture

Prerequisites: Senior or graduate standing

EC 1933, Chemical Engineering 401, MSE 401, Nanomaterials, approved effective Fall 2007.

Course Description: Introduction of the fundamentals of nanomaterials and recent developments on nanomaterials. Topics include physical and chemical properties, synthesis, processing, and applications of nanomaterials. Example nanomaterials include nanoparticles, nanotubes, and nanowires. Students will need to complete a project related to nanomaterials.

Credit Hours: 3 hour lecture

Prerequisites: Graduate Standing

EC 1934, Engineering Management 401, Systems Engineering 401, Systems Optimization, approved effective Fall 2007.

Course Description: This course explores the theory and practice of modern system optimization with an emphasis on nonlinear programming and algorithm development.

Credit Hours: 3 hour lecture

Prerequisites: Math 204, or 209

EC 1936, Psychology 301, Issues in Child Clinical Psychology, approved effective Fall 2007.

Course Description: An examination of psychological disorders, cultural and social stressors, and other factors that affect children and adolescents, along with effective means of intervention.

Credit Hours: 3 hour lecture

Prerequisites: Psych 50, Psych 362

EC 1937, Engineering 101, Seeds of Success, approved effective Fall 2007.



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Course Description: This is a residential learning community course which will focus on topics of leadership, professionalism, ethics and success strategies for college and beyond.

Credit Hours: .5 hour lecture

Prerequisites: None

EC 1938, IDE 301, Engineering Management 301, Creativity and Innovation, approved effective Spring 2008.

Course Description: This course discusses creativity techniques, up-to-date research results in theory of creativity, examples of engineering innovations, how innovations occur, and the relationships between creativity techniques and innovations.

Credit Hours: 3 hour lecture

Prerequisites: Senior or Graduate standing

EC 1939, Civil Engineering 301, Architectural Engineering 301, Green Engineering: Analysis of Constructed Facilities, approved effective Fall 2007.

Course Description: Environmentally sound design and construction practices. Includes design issues, material selection and site issues that can reduce the impact on the environment caused by the construction process.

Credit Hours: 3 hour lecture

Prerequisites: CE 248 and Junior Standing

EC 1940, Civil Engineering 301, Fundamentals of Traffic Flow Theory, approved effective Fall 2007.

Course Description: This course will cover fundamentals of traffic flow, traffic flow characteristics, statistical distributions of traffic flow parameters, traffic stream models, car following models, continuum follow models, shock wave analysis, queuing analysis, traffic flow models for intersections, network flow models and control, traffic simulation.

Credit Hours: 3 hour lecture

Prerequisites: Stat 213, CE 211, preceded or accompanied by CE 353

EC 1941, Civil Engineering 401, Advanced Traffic Flow Theory, approved effective Fall 2007.

Course Description: This course will cover advanced theories of traffic flow, traffic flow characteristics, statistical distributions of traffic flow parameters, traffic stream models, car following models, continuum follow models, shock wave analysis, queuing analysis, traffic flow models for intersections, network flow models and control, traffic simulation.

Credit Hours: 3 hour lecture

Prerequisites: Preceded or accompanied by CE 353, knowledge of statistics, graduate standing



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EC 1944, MSE 301, Advanced Phase Equilibria, approved effective Fall 2007.

Course Description: Advanced aspects of unary, binary and ternary organic, phase equilibria. Includes practical examples of the application of phase diagrams to solve engineering problems. Credit not granted for both Cer 251 and MSE 301.

Credit Hours: 3 hour lecture

Prerequisites: Graduate standing

EC 1945, Petroleum Engineering 301, Mechanical Earth Modeling, approved effective Fall 2007.

Course Description: This course introduces the work process necessary to create the Mechanical Earth Model's principal components, formation in-situ stress and strength. 1-D modeling methods are reviewed and extended to 3-D; and the integration of MEM with well design is shown. A real-world MEM model and accompanying well design will be created and compared to actual field results.

Credit Hours: 3 hour lecture

Prerequisites: Mining 232 or Geo 220 or PE 232

EC 1946, Geophysics 301, Seismic Interpretation, approved effective Fall 2007.

Course Description: An introduction to 2-D/3-D seismic structural interpretation, stratigraphic interpretation, reservoir identification and evaluation, and horizon and formation attributes. The students are expected to master interactive 2-D/3-D seismic interpretation software packages that are routinely used in the petroleum industry.

Credit Hours: 1 hour lecture, 2 hour lab, Total: 3

Prerequisites: Geop 201 or Geop 385

EC 1948, Business 301, Enterprise Resource Planning: Customer Relationship Manage, approved effective Fall 2007.

Course Description: This customer-centric course emphasizes identification (targeting), acquisition, retention, and development (expansion) of (profitable) customers. It also covers effective and efficient management of customers with utilization of information technology. The SAP CRM module is used to enhance student education with real world applications and prepare graduates for future career requirements.

Credit Hours: 3 hour lecture

Prerequisites: IST 346 or Bus 326; Bus 420 or IST 246 or Bus 246



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J. Keith Nisbett, Chair  
UMR Campus Curricula Committee

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**Accommodations needed for the following people by May 4, 2007 deadline: accommodations may be made if requesting party can receive packet before May 11, 2007. Mail packets to requesters by May 11, 2007. Packets must be ready for pick-up on May 7, 2007 and available until noon on May 11, 2007. (ITEMS IN BOLD, RED FONT WILL BE PICKED UP OR SHOULD BE MAILED TOMORROW).**

<b>Graduate</b>	<b>Mail information to</b>	<b>Impairment and accommodation</b>	<b>Seats (Max = 4)</b>	<b>Mailed Info On</b>
Kyle Doerr	Lori Doerr 137 E. Temple Columbia, IL 62236	Mobility	<b>3</b>	4/12/07
Stephen Hollstein	Jim Hollstein 118 ½ Coral Terrace Lane Ballwin, MO 63011 (636)527-7636	Mobility	<b>4</b>	4/12/07
Elyse Hendrickson	Cindy Hendrickson 2 Teak Court St. Peters, Mo 63376 (363) 751-9878	Mobility	<b>4</b>	4/12/07
Jason Sneed	Debra Sneed (Aunt) 5352 Soapberry Springfield, Mo 65802 (417) 869-2122	Mobility	<b>2</b>	4/12/07
Jason Sneed	Pam Sneed (Mom) 233 S. Miller Springfield, MO 65802 (417) 831-3719 (417) 766-8219 (cell)	Mobility	<b>4</b>	4/12/07
Anthony Magnan	Mary Magnan 5509 Lamprecht Lane House Springs, MO 63051 (314) 800-6438	Mobility & Hearing Impaired	<b>4</b>	4/12/07
Julia Hopfer	Charm Hopfer 7652 Lakeview Drive Hillsboro, MO 63050 (314) 623-1006 (cell) (636) 274-2900	Mobility	<b>3</b>	4/17/07
Gregory Heitzmann	Pam Heitzmann 895 Coyote Ridge Road Beaufort, MO 63013 (636) 583-4152	Mobility	<b>4</b>	4/20/07

[illegible]

**Volume XXXVII, Number 5**  
**Minutes of the Academic Council Meeting**  
**February 15, 2007**

**I. Call to Order, Roll, and Approval of Minutes**

The meeting was called to order at 13:30 by President Kurt Kosbar and roll was taken. The following absentees were noted: Stanley Woronick, Joseph Herdade, Shannon Fogg, Mark Mullin, Shari Dunn-Norman, Mohamed Abdelsalam, Paul Worsey, Gary Mueller, H.L. Tsai, Caroline Fisher, Mariesa Crow, William Schoenberg. The following substitutions were noted: John Morgan for Anne Cotterill, Massimo Bernito for Barbara Hale, David van Aken for William Fahrenholtz, Eric Showalter for D.J. Belarbi, Robert Montgomery for Paula Lutz

The meeting minutes of January 18, 2007 were **approved** as submitted.

**II. Campus Reports and Responses**

**A. President Report – Kurt Kosbar**

- a. Campus Reorganization – Administrative Structure. Chancellor Carney formally announced two new vice provost positions, the Vice Provost of Graduate Studies (VPGS) and Vice Provost for Academic Affairs. RP&A elected Bruce McMillin to serve on the VPAA search committee and William Fahrenholtz to serve on the VPGS search committee.
- b. Campus Reorganization – Tenure Policy. Bruce McMillin will be presenting a proposal later today.
- c. Campus Reorganization – Student Academic Regulations. A draft prepared by the Ad-Hoc committee (chair, Doug Carroll) has been sent to the Academic Freedom and Standards Committee for comment.
- d. Campus Reorganization– UMR Bylaws, UMR Catalogs. An ad-hoc committee, chaired by Doug Carroll, is continuing to work on preparing a draft of the UMR Bylaws and UMR Catalogs to accommodate the campus reorganization. In order to implement them in Fall 2007, the UMR General Faculty must approve the revisions following its Spring 2007 meeting.
- e. UM System President Search – Advisory Committee. The entire Board of Curators will act as the search committee. The Board has requested an advisory committee be formed. The Board has specified the committee will include the President of IFC (Dr. Frank Schmidt, UMC), and 4 curators/curators teaching professors. This group of 8 faculty will be selected from a list of 16 with each campus being allowed to place 4 on the list.
- f. Strategic Planning Committee – The Academic Council was asked to supply three names to serve on the committee. RP&A nominated Don Myers, Lance Haynes, and Doug Carroll.



- g. 2008-2009 Academic Schedule – There was an active debate at both the Public Occasions Committee and the RP&A committee over the 2008-2009 Academic Schedule. The schedule will be presented later today.
- h. Homeless Minors and Courses – Meeting will be held tomorrow at Schrenk Hall to discuss minors and courses which are currently housed in schools/colleges, but will lose their homes when the school/college structure is eliminated. Curriculum and RP&A committees are discussing how to handle these situations.
- i. Interaction with Student Council – Student Council has been communicating with us regarding mid-semester evaluations. There are concerns regarding identity of handwriting in smaller classes and negative comments on the end-of-semester teaching evaluation forms.
- j. Senate Bill 389 – There is a very active debate occurring over SB 389, which would modify several provisions regarding the state's higher education system.
- k. Reaction to SB 389 on other UM System Campuses – UMC, UMSL and UMKC has all passed resolutions similar to the following: "Be it resolved by Faculty Council that any changes to Missouri higher education must preserve the historic constitutional status of the University of Missouri and lawful academic freedom. (UMC Version).
- l. Academic Council Listserv (AC-L) Issues – The Listserv had some issues with it, but immediate action was taken to correct the situation, but it was a few days before the corrections were fully implemented.

Frank Blum moved to suspend the agenda to discuss UMR's reaction to SB 389, provided that debates be limited to 5 minutes. Motion was **voted** and **passed** unanimously.

Frank Blum moved a resolution: "Be it resolved by Academic Council that any changes to Missouri higher education must preserve the historic constitutional status of the University of Missouri of Missouri and traditional academic freedom". Motion was **voted** and **passed** unanimously.

## **B. Administrative Report – Chancellor J. F. Carney III**

- a. Name Change Update – Alumni 70% in favor; Undergraduate students 46% in favor, 54% opposed; Graduate students 57% in favor, 43% opposed. Overall 48% in favor, 52% opposed. Faculty 65% in favor, and staff 62% in favor. A marketing research firm has been hired to conduct a survey and its work will be completed in March 2007.
- b. FY08 State Appropriations – There will be 4.2% increase.
- c. MAE Construction Update – The construction is on schedule.
- d. A farewell Reception for President Floyd will be held on March 14<sup>th</sup> at 3:30 in the Carver-Turner room. Board of Curators will have an open forum on new President

search on March 20<sup>th</sup> at 1:30 in the Carver-Turner room. Next Board of Curators Meeting will be held on our campus on April 5 and 6<sup>th</sup>.

- e. Capital Campaign News – As of the end of January we are at 1.6 million and we will be going public on April 19th at 3:30 in Leach Theatre.
- f. Spring Career Fair will be held on February 20<sup>th</sup>. We have over 200 companies and corporations coming and this is the largest Spring Fair we have ever had.

### **C. Administrative Report – W. K. Wray**

- a. Enrollment – 5552 students, which is 328 (6.3% increase) more than last year at this time.
- b. Research proposal dollars are catching up and, and we are behind on proposal submissions and dollar amounts. Grant contract expenditures through the end of January are 16% less.
- c. Academic Advising Awards – We are accepting nominations for the 2006/2007 awards and are due on February 28, 2007. Awards will be announced during a campus-wide reception on April 25, 2007 in the Havener Center.
- d. Academic Alert System – Faculty is reminded of utilizing the system, but also of removing alerts after they have completed.
- e. Undergraduate Research Conference - The third annual conference will be held April 11 and the registration deadline is March 16<sup>th</sup>.
- f. Minernet Information Network pilot will be up and running the week before St. Pat's.
- g. Engineers Week Banquet – At Zeno's Steak House on Feb. 16<sup>th</sup> at 6:00.

### **D. Staff Council Report – Kim Frazier**

No report.

### **E. Student Council – Lauren Huchingson**

- a. ITCC – passed a resolution not to support the outsourcing of e-mail system.
- b. President to faculty listserv – an opt-in listserv for student council president to e-mail all faculty members to communicate what is going on with student council.
- c. The inaugural President Summit – will be held March 3<sup>rd</sup> with Chancellor Carney being the speaker. All 200+ student organization presidents are invited.
- d. Student Council Alumni – on April 28 will be inviting back 30 years of student council presidents to set up a new academy.

- e. Student Leadership Conference – March 3<sup>rd</sup>.
- f. Student Council Campaign – will start about mid March
- g. Lauren Huchingson been named to UM President's search committee.

#### **F. Council of Graduate Students – Adam Sibley**

- a. Research Showcase – The COGS is involving younger faculty to be judges this year's Research Showcase, which will be held most likely on April 4<sup>th</sup>. If you know of anyone who might be interested in being a judge, please contact COGS president.
- b. COGS Campaign – will start the campaign on February 28<sup>th</sup> and the next president will take over in March.

### **III. Reports of Standing and Special Committees**

#### **A. Curricula – Keith Nisbett**

- a. Approval of proposed Industrial/Organizational Psychology Master's of Science degree program contingent upon Graduate Faculty approval and Budgetary Affairs Committee's recommendation:

"The Budgetary Affairs Committee believes that the proposed Industrial/Organizational Psychology Master's of Science Degree Program could be started immediately and that the additional faculty member requested as part of the proposal may be warranted to accommodate increased loads if the program meets the projected enrollment targets."

Motion was **voted** an **passed** unanimously.

- b. Approval of submitted forms posted on the web with the exception of the proposed program in (a). Motion was **voted** and **passed** unanimously.

#### **B. Academic Freedom and Standards – Lance Haynes**

- a. Prerequisites differ across the campus. The AFS committee recommends to the AC the following changes to the Student Academic Regulations:

<http://campus.umn.edu/acadcoun/archive/reports/ACFReedom.2.15.07.pdf>

Motion was **voted** and **passed** (16Y, 8N).

#### **C. Student Affairs – Jeff Smith**

- a. Move to approve the constitution for "Students Today, Alumni Tomorrow". Motion was **voted** and **passed**.

#### **D. Public Occasions – G. Venayagamoorthy**

- b. Move to approve the 2008-2009 Academic Calendar. Motion was **voted** and **passed** unanimously. The calendar can be found at:

[http://campus.umn.edu/acadcoun/reports/2008-2009\\_Calendar.pdf](http://campus.umn.edu/acadcoun/reports/2008-2009_Calendar.pdf)

#### **E. Tenure – Bruce McMillin**

McMillin presented the committee's recommendation of new Promotion and Tenure procedures in light of new campus organizational structures. The details can be found at:

<http://campus.umn.edu/acadcoun/archive/reports/promotion.tenure.2.15.07.pdf>

Motion was **voted** and **passed (16Y, 2N)**.

#### **IV. Old Business**

None

#### **V. New Business and Announcements**

##### **A. New Referrals**

None

##### **B. Announcements**

Frank Blum, UMR representative to the Missouri Association of Faculty Senates, reported on the Association's Winter meeting. Details can be found at:

[http://campus.umn.edu/acadcoun/reports/mafs\\_report\\_2.05-06.07.pdf](http://campus.umn.edu/acadcoun/reports/mafs_report_2.05-06.07.pdf)

The meeting was adjourned at 15:00.

Respectfully Submitted,

Eun Soo Park  
Secretary, Academic Council

## **ACADEMIC COUNCIL (AC) PRESIDENT'S REPORT FOR FEBRUARY 15, 2007 AC MEETING**

**Campus Reorganization - Administrative Structure** The Chancellor announced that the new administrative structure for the university will include 4 Vice Provosts (Research, Undergraduate Studies, Graduate Studies, Academic Affairs). Search committees have been formed for the two new positions, the Vice Provost of Graduate Studies (VPGS) and Vice Provost for Academic Affairs (VPAA). The AC was asked to place one person on each of these search committees. The Rules, Procedure and Agenda (RP&A) committee elected Dr. Bruce McMillin to serve on the VPAA search, and Dr. William Fahrenholtz to serve on the VPGS search.

**Campus Reorganization - Tenure Policy** The campus Tenure committee, chaired by Dr. Bruce McMillin, has produced a draft revision of the campus promotion and tenure policy. The draft was discussed at an open forum, and subsequently modified. It is anticipated that this modified draft will be discussed at the Feb. 15 Academic Council meeting.

**Campus Reorganization - Student Academic Regulations** An ad-hoc committee, chaired by Dr. Doug Carroll, has created a draft version of the UMR Student Academic Regulations, which accommodates the elimination of the school and college structures. The draft document has been sent to the Academic Freedom and Standards committee, and the Student Affairs committee, for comment. It will not become university policy unless, and until, it is approved by the Academic Council.

**Campus Reorganization - UMR Bylaws, UMR Catalogs** An ad-hoc committee, chaired by Dr. Doug Carroll, is continuing to work on creating a draft version of the UMR Bylaws and UMR Catalogs to accommodate the elimination of the school and college structures. This matter has also been discussed with the RP&A committee, the Chancellor and the Provost. The Bylaws are part of the University of Missouri Collected Rules and Regulations (<http://www.umsystem.edu/ums/departments/gc/rules>), and as such, must be approved by the UMR General Faculty, and then the Board of Curators. To have any chance of a Fall 2007 implementation, the UMR General Faculty must approve the revisions following its spring 2007 meeting.

**UM System President Search - Advisory Committee** The University of Missouri System is searching for a new president. The entire Board of Curators will act as the search committee. The Board has requested that an advisory committee be formed. The Board has specified the composition of the advisory committee, which includes the president of the Intercampus Faculty Council (Dr. Frank Schmidt, UMC), and 8 Curators/Curators Teaching Professors. This group of 8 faculty, will be selected from a list of 16 - with each campus Chancellor being allowed to place 4 individuals on the list. UMR Chancellor, Dr. John Carney III, has asked the Academic Council to nominate 4 active (not retired) Curators Professors, and 4 active Curators Teaching Professors. The Chancellor will then select 2 from each list, to forward to the Board of Curators. The RP&A committee is currently discussing this matter.

**Strategic Planning Committee** The RP&A Committee is working with the Provost to establish a committee to address refining, maintaining and implementing the UMR strategic planning document distributed in draft form last academic year. The Provost requested that three individuals be nominated from the Academic Council. The RP&A committee nominated Drs. Don Myers (Chair, Budgetary Affairs Committee), Lance Haynes (Chair, Academic Freedom and Standards Committee) and Doug Carroll (Parliamentarian, Academic Council). The composition of this committee is summarized below:

Kent Wray (chair)	Provost
Connie Eggert	Vice Chancellor - Advancement
Debra Robinson	Vice Chancellor - Student Affairs
Krishna Krishnamurthy	Vice Provost - Research
Harvest Collier	Vice Provost - Undergraduate/Graduate Studies
Jay Goff	Dean - Enrollment Management
Henry Wiebe	Dean - Extended Learning
Bill Daughton	Chair - Engr. Mgt & Sys
Larry Gragg	Chair - Hist & Pol Sci
Leon Hall	Chair - Math, Chair Committee of Department Chairs
Don Myers	Prof. - Engr Mgt & Systems
Lance Haynes	Prof. - ALP
Doug Carroll	Prof. - IDE

**2008-2009 Academic Schedule** There was active debate at both the Public Occasions Committee, and the RP&A committee, over the 2008-2009. The primary concern was the number of days in the spring semester. The final recommendation was to accept a schedule with 15 Mondays, Thursdays and Fridays, and 16 Tuesdays and Wednesdays. This is consistent with previous spring semesters, but is one week longer than the minimum specified in section 20.140 of the Collected Rules and Regulations, available on the web at:

<http://www.umsystem.edu/ums/departments/gc/rules/administration/20/140.shtml>

**Homeless Minors and Courses** There is a proposal to create a Global Studies Minor, which may not have a department home. There are also courses, such as the Residential College courses, which are currently housed in the schools/college - which will be losing these homes when the school/college structure is eliminated. The Curriculum and RP&A committees are discussing how to handle these situations.

**Interaction with Student Council** There are ongoing discussions with the Student Council, the Council of Graduate Students, the Committee for Effective Teaching, and the faculty standing committees on Personnel and Academic Freedom and Standards over the matter of mid-semester evaluations. Student Council leaders have also discussed with the Academic Council officers ways to more openly advertise/document, when courses will/have been offered. Finally, there have been discussions regarding student concerns that instructors may be able to use handwriting analysis to determine the identity of students who make negative comments on the end-of-semester teacher evaluation forms.

**Senate Bill 389** There is a very active, and intense, debate occurring over SB 389 - which would modify several provisions regarding the state's higher education system. One version of the bill is available on the web at:

[http://www.senate.mo.gov/07info/BTS\\_Web/Bill.aspx?SessionType=R&BillID=8645](http://www.senate.mo.gov/07info/BTS_Web/Bill.aspx?SessionType=R&BillID=8645)

This is a highly fluid situation, with provisions in the bill being changed daily. Some of the issues raised in this bill are summarized below, although they may well have changed from the time this document was created.

**Lewis and Clark Discovery Initiative / MoHELA Sale.** This would authorize the sale of MoHELA assets, and the transfer of approximately \$350 million to the Missouri Development Finance Board (<http://www.mdfb.org/>). The MDFB would then fund capital improvement projects at state universities, including Toomey Hall at UMR. Apparently the MDFB intends to place restrictions on the funds, so that embryonic stem cell research could not be performed in the buildings which they help finance. At its January, 2007, meeting, the UM System Board of Curators agreed to follow these restrictions. There is wide-spread speculation that both the transfer of funds from MoHELA to the MDFB, and also the stem cell restrictions, will be challenged in court.

**Need-Based Financial Aid.** There are plans to allocate approximately \$70 million to need-based financial aid, which could be used by Missouri students attending either public, or private, institutions of higher education.

**Tuition Stabilization.** There are provisions in the bill to limit the rate at which public institutions in the state can raise tuition. The intent is to limit tuition increases to a measure of inflation (such as the Midwest Consumer Price Index). If a school wishes to exceed the limit, they would need to seek permission from the Coordinating Board for Higher Education (CBHE). A school which disregarded the policy could be subject to fines.

**Governance Issues.** The bill may significantly strengthen the position of both the CBHE, and the commissioner of higher education. These changes would not only impact the ability to control tuition, but may extend to areas such as transferability of credits. This is being suggested, in part, because of a legal dispute between two public institutions which are not part of the University of Missouri System. There are some who believe this could negatively impact the ability of the Board of Curators to govern the UM System.

**Reaction to SB 389 on other UM System Campuses.** On Feb. 13, there was a conference call between the chair of the Board of Curators, and the presidents of the UMC, UMKC, UMSL and UMR faculty senate presidents (or equivalent). Among other issues discussed, the Curator was told that the UMC, UMSL and UMKC faculty governance bodies had all passed resolutions similar to the following:

*Be it resolved by Faculty Council that any changes to Missouri higher education must preserve the historic constitutional status of the University of Missouri and lawful academic freedom. (UMC Version)*

This resolution references the Missouri Constitution, which is available on the web at: <http://www.sos.mo.gov/pubs/constitution.asp>

**Academic Council Listserv (AC-L) Issues** The UMR IFC representatives sent an e-mail message to the AC-L list serve, seeking information to help them prepare for an upcoming IFC meeting. This letter generated many replies, including some which were sent to the listserv itself. The listserv had been configured to automatically reject all messages, except those generated by Academic Council representatives - however it did not function in that manner. All messages sent to the listserv, were forwarded. While immediate action was taken to correct the situation, it was a few days before the corrections were fully implemented.

**Referrals and Other IFC Issues.** Additional information on Referrals and Intercampus Faculty Council activities will be reported at the Academic Council meeting.

Respectively Submitted,

February 13, 2007

Dr. Kurt Kosbar  
Academic Council President



Dr. John F. Carney III  
Academic Council  
February 15, 2007

- ◆ Name Change Update
- ◆ FY08 State Appropriations
- ◆ MAE Construction Update
- ◆ Farewell Reception for President Floyd
- ◆ Capital Campaign News
- ◆ Enrollment News

**Constitution and By-Laws for Students Today, Alumni Tomorrow**  
A MSM-UMR Student Alumni Association  
University of Missouri-Rolla

Created: September 28<sup>th</sup>, 2006

Approved: November 8<sup>th</sup>, 2006

**Preamble**

We the members of Students Today, Alumni Tomorrow in conjunction with the MSM-UMR Alumni Association will strive forward the interests of the students and foster a lasting relationship among our members, the student, and the campus which will carry throughout their years as an alumnus.

**Article I – Name**

This organization will be known as Students Today, Alumni Tomorrow at the University of Missouri-Rolla, hereafter referred to as STAT-UMR. This organization is in affiliation with the MSM-UMR Alumni Association. STAT-UMR will have no designated insignia, but will be recognized by the STAT-UMR logo.

**Article II – Mission Statement**

The purpose of STAT-UMR is to promote and inform the MSM-UMR students of the objective and benefits of the MSM-UMR Alumni Association, and to maintain and build relationships with current and future alumni. A secondary intent is to foster a sense of pride in UMR which will keep students involved following their departure after commencement.

**Article III – Membership**

**Section I.** The regular membership of STAT-UMR shall be open to University of Missouri-Rolla students, graduate or undergraduate, who meet eligibility requirements for participation in extra-curricular activities set by the University. The regular members, who are in good standing with STAT-UMR, shall have the right to vote or hold office.

**Section II.** Associate membership of STAT-UMR shall be open to all UMR faculty, staff, or alumni who are interested in the organization. Associate members shall not have the right to vote upon items of business at regular meetings or hold office.

**Section III.** Membership selection may not discriminate on the basis of race, gender, national origin, ethnicity, age, religion, sexual orientation, disability, or veteran status.

**Section IV.** Regular membership will take effect when the interested party pays dues, designating the member with good standing.

**Section V.** Regular members shall be free to invite guests to any regular meetings of STAT-UMR.

**Section VI.** Members may be removed via a two thirds majority vote of the membership.

## **Article IV – Executive Officers**

**Section I.** Only regular members in good standing with STAT-UMR have the right to hold or run for office.

**Section II.** The officers of STAT-UMR shall be President, Vice President, Secretary and Treasurer. These officers shall be regular members in good standing with the University of Missouri-Rolla and the MSM-UMR Alumni Association. These officers shall also meet all of the requirements of the UMR Student Code of Conduct with regards to holding an office. The Executive Committee will consist of the officers along with the standing committee heads designates in Article VII Section II.

**Section III.** The duties of the Executive Officers shall be as follows:

**A. President:** It shall be the duty of the President to preside over all regular meetings, and administer all business concerning the organization. The President shall be responsible for the proper functioning of all committees. He/She shall act as a liaison between membership and external organizations. The President shall represent STAT-UMR at conferences, student government meetings, and faculty meetings.

**B. Vice-President:** It shall be the duty of the Vice President to assist the President in the duties of his/her office and to preside over the meetings in his/her absence. Committees and thus committee chairs created hereafter will report to the Vice President.

**C. Secretary:** It shall be the duty of the Secretary to keep minutes of all business sessions and distribute them to all regular members if deemed necessary by the Executive Officers. The Secretary shall maintain the membership list and he/she is responsible for communication of information to members.

**D. Treasurer:** It shall be the duty of the Treasurer to manage all money collected and disbursed as well as the financial records for said transactions. The Treasurer shall be responsible for the regular collection of dues from members as deemed necessary. He/She is responsible for documentation of all income and expenditures in partnership with the university and for the organization and oversight of all fundraising.

**Section IV.** Committees may be created on both a temporary and/or permanent basis. Committees will be utilized to manage both STAT-UMR events and fundraisers. Committees will consist of one (1) committee chair and at least two (2) committee members. Committees may also be formed to tackle a project or other irregular item. Committee members will serve on a volunteer basis.

**Section V.** Executive Committee officers shall be elected in the following manner:

**A.** The election of officers shall be held bi-annually in a business meeting of the regular meetings. The term for elected officers shall be one (1) semester in duration.

**B.** The election meeting shall be the first business meeting of the Academic Semester.

**C.** Any regular member of STAT-UMR may campaign or be nominated for any position on the Executive Committee.

**D.** The candidate present for each office receiving a plurality vote of regular members at the elections meeting will be considered the victor.

**E.** New officers begin their term at the beginning of the academic semester and complete a one (1) semester term.

## **Article V – Advisor**

**Section I.** A full time University of Missouri-Rolla faculty or staff member will serve as an advisor to STAT-UMR.

**Section II.** The advisor shall be invited and appointed by the Executive Committee based on a majority vote.

**Section III.** The advisor will serve for a period of two (2) years. After this period of service expires, he/she shall have the opportunity to serve another two-year term. No term limit is to be imposed.

**Section IV.** The duties of the Advisor include meeting with the STAT-UMR organization officers, signing all required paperwork, promoting the organization whenever possible, and advising regular members on: issues of risk management, organization leadership, and University of Missouri-Rolla policy.

**Section V.** If the advisor is not meeting requirements of his/her position, he/she may be removed by a majority vote of the Executive Committee, see Article IV.

**Section VI.** If an advisor is removed or resigns, the Executive Committee will follow the process stated in Article V Section II.

## **Article VI – Meetings**

**Section I.** Business meetings of regular members shall be held at such intervals and at such times as determined by the executive committee. Executive officers and/or advisor will arrange accommodations which may include location, speakers, equipment, and food.

**Section II.** An amendment to the constitution may be passed in regular meetings of STAT-UMR and will require a two thirds majority vote. Please see Article X, Section II for additional guidelines.

**Section III.** Executive Committee meetings are held for the officers and advisors to discuss STAT-UMR issues and to prepare for upcoming events. Executive Committee meetings are held when deemed necessary by the President of STAT-UMR and/or the advisor.

**Section IV.** Committee meetings are for Executive officers and committee heads and committee members to discuss necessary orders of business. Committee meetings shall be called anytime by either the Executive committee or by a committee head.

## **Article VII – Committees**

**Section I.** The standing committees shall be the Homecoming Committee, Athletic Support Committee, Professional Contact Committee, and Executive Committee.

**Section II.** Duties of the Standing Committees:

**A.** The Homecoming Committee shall be responsible for establishing, scheduling, coordinating, and overseeing student involvement in Homecoming activities promoted by the MSM-UMR Alumni Association.

**B.** The Athletic Support Committee shall be responsible for establishing, scheduling, coordinating, and overseeing student involvement in UMR Athletic Program events.

**C.** The Professional Contact Committee shall be responsible for putting alumni and current students of the University of Missouri-Rolla in contact for the purpose of improving the co-op, intern, and/or college experience.

**D.** The Executive Committee shall be responsible for the general supervision of the business of the entire organization. This Executive Committee shall consist of the Advisor, President, the Vice President, Secretary and Treasurer.

**Section III.** Special Committees shall be established and appointed by the President when considered advisable by the Executive Officers, in coordination with the guidelines in Article IV, Section IV.

## **Article VIII – Dues**

**Section I.** The Executive Officers shall set the amount of dues at the beginning of the fall semester each year.

**Section II.** Dues will be paid once a reoccurring yearly basis per member.

## **Article IX – Rules and Regulations**

**Section I.** STAT-UMR shall abide by all University of Missouri-Rolla rules and all state laws. STAT-UMR shall not create any rules, policies, or practices that violate the laws of the state or the rules of the University.

**Section II.** Regular members of STAT-UMR shall comply with the standards set forth by the University of Missouri-Rolla for students and faculty.

**Section III.** Statement on hazing: No hazing shall be approved or tolerated by regular members. Incidents of hazing within STAT-UMR will be subject to immediate removal from the organization and disciplinary action by the University.

## **Article X – Constitution**

**Section I.** Adoption:

**A.** The Constitution shall be approved by the Student Affairs Committee.

**B.** The Constitution shall be approved by the Academic Council.

**C.** The Constitution shall be ratified by two-thirds vote of the regular members of STAT-UMR.

**Section II.** Constitutional Amendments:

**A.** Amendments to the Constitution shall be submitted in writing to the Executive Committee for consideration. A reading of the proposed amendment is required prior to submitting the amendment to a vote.

**B.** Amendments will be introduced by the highest ranking officer present at a regular or special meeting.

**C.** Written or verbal notification to regular members must be provided at least one week in advance of voting on any proposed changes in the constitution.

**D.** A vote for approving an amendment must be taken within two weeks after it has been introduced.

**E.** A two-thirds vote of regular members present is required for the adoption of the amendment. At least 70% of all regular members must be present at the time of vote.

**F.** All amendments to this Constitution are subject to the approval of the Academic Council, Student Affairs Committee, and/or their designee.

## **Article XI - By-Laws**

**Section I.** By-laws are defined as matters that will be subject to frequent revision.

**Section II.** By-laws may be considered after the highest ranking officer has announced that the floor is open to by-law submittal.

**Section III.** Any member can request a by-law by submitting a request in writing to the Executive Officers.

**Section IV.** By-laws shall be filed with the Office of Student Affairs upon ratification.



**UMR**

# **ACADEMIC COUNCIL REPORT**

**WARREN K. WRAY  
PROVOST AND  
EXECUTIVE VICE CHANCELLOR  
FOR ACADEMIC AFFAIRS**

**February 15, 2007**



**UNIVERSITY OF  
MISSOURI-ROLLA**



**UMR**

# **ENROLLMENT MANAGEMENT**



**UNIVERSITY OF  
MISSOURI-ROLLA**



## UMR - Enrollment Management Services WEEKLY ENROLLMENT REPORT

			Fall 2002	Fall 2003	Fall 2004	Fall 2005	Fall 2006	Fall 2007
			(PS)	(PS)	(PS)	(PS)	(PS)	(PS)
			2/1/2002	2/1/2003	2/1/2004	2/1/2005	2/1/2006	2/1/2007
<b>FRESHMEN</b>	<b>Inquiries</b>	Beg. Fr. Inquiries	12376	10470	9127	9762	10049	10350
		HS Jr. Inquiries	5043	3531	3256	3578	3684	3503
	<b>Applications</b>		1637	1562	1622	1709	1846	2152
		Pending	168	116	108	124	167	173
		Withdrawn Apps	1	10	0	0	2	1
	<b>Admitted</b>		1426	1399	1481	1545	1615	1888
		Cancelled Admits	11	8	13	6	3	6
		Denied	42	37	33	40	62	90
	<b>Enrolled</b>		0	0	0	0	0	0
<b>TRANSFERS</b>	<b>Inquiries</b>		433	443	664	512	787	689
	<b>Applications</b>		180	165	150	156	175	179
		Pending	86	59	51	56	81	69
		Withdrawn Apps	0	0	0	0	1	3
	<b>Admitted</b>		91	106	93	98	92	106
		Cancelled Admits	0	0	0	0	0	2
		Denied	3	0	6	2	1	1
	<b>Enrolled</b>		0	0	0	0	0	0
<b>GRADUATES</b>	<b>Inquiries</b>		2490	1742	842	834	1276	1170
	<b>Applications</b>		2194	1726	802	721	1027	991
		Pending	1513	1094	542	438	648	674
		Withdrawn Apps	3	3	1	1	3	0
	<b>Admitted</b>		512	465	179	189	240	203
		Cancelled Admits	0	0	0	0	0	0
		Denied	166	164	80	93	136	114
	<b>Enrolled</b>		0	0	0	0	0	0
<b>ORIENTATION</b>	<b>Freshmen</b>	Total Reservations	157	238	358	373	441	450
	<b>Transfer</b>	Total Reservations	0	0	21	11	16	13
<b>HOUSING AGREEMENTS</b>		Returning	0	0	0	0	0	0
		Beginning Freshmen	0	0	352	431	442	392
		New Transfers	0	0	0	0	0	7
		Waivers	0	0	0	0	0	0
		Greek Housing	0	0	0	0	0	0
		<b>TOTAL</b>	0	0	352	431	442	399
<b>4TH WEEK CENSUS</b>		Beginning Freshmen	815	897	877	914	977	
		New Transfers	261	281	288	279	266	
		Graduates	423	348	402	355	392	
		<b>TOTAL</b>	1,499	1,526	1,567	1,548	1,635	

PS - data from PeopleSoft system

Unofficial Internal Planning Data - not intended for public release.

# UMR

## UNIVERSITY OF MISSOURI-ROLLA ENROLLMENT GRID

JANUARY 30, 2007 - SPRING

END OF 3RD WEEK

	FR M	FR F	SO M	SO F	JR M	JR F	SR M	SR F	TOTAL UG	MAST M	MAST F	DOCT M	DOCT F	TOTAL GRAD	TOTAL MALE	TOTAL FEMALE	TOTAL YEAR AGO	
	ROLLA CAMPUS																	
A&S UND	2	4	8	3	6	0	4	6	33	0	0	0	0	0	20	13	33	41
BIO SC	7	15	16	21	9	10	16	38	132	5	9	0	0	14	53	93	146	132
CHEM	4	6	9	7	4	6	4	9	49	2	1	28	18	49	51	47	98	113
CP SC	36	4	37	2	58	6	75	8	226	52	8	8	4	72	268	32	298	290
ENGL	2	5	3	4	2	8	4	11	39	0	0	0	0	0	11	28	39	32
HIST	8	2	6	6	9	9	18	9	67	0	0	0	0	0	41	26	67	65
MATH	2	4	9	1	6	6	16	6	50	7	6	11	5	29	51	28	79	73
PHIL	0	0	0	0	0	0	4	1	5	0	0	0	0	0	4	1	5	3
PHYS	2	1	9	2	10	5	21	5	55	3	0	10	4	17	55	17	72	80
PSYCH	2	6	4	20	5	17	13	13	80	0	0	0	0	0	24	56	80	68
TECH COM	1	0	4	0	1	1	0	0	7	1	7	0	0	8	7	8	15	9
A&S	66	47	105	66	110	68	175	106	743	70	31	57	31	189	583	349	932	907
AERO E	0	0	17	2	41	11	74	11	156	20	3	3	1	27	155	28	183	160
ARCH E	0	0	9	3	27	15	47	25	126	0	0	0	0	0	83	43	126	106
CHEM E	0	0	10	5	26	24	40	26	131	10	7	10	3	30	98	65	161	157
CIV E	0	0	9	3	63	20	130	20	245	18	10	15	10	53	235	63	298	291
COMP E	0	1	11	1	30	2	73	3	121	24	7	7	3	41	145	17	162	158
ELEC E	0	0	26	1	69	4	165	19	284	72	16	46	8	142	378	48	426	424
E MGT	0	0	12	3	25	11	63	25	139	29	8	10	5	52	139	52	191	188
E MECH	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1	1
ENGR UND	0	0	0	0	5	0	6	0	11	0	0	0	0	0	11	0	11	15
ENVR E	0	0	2	2	4	10	10	4	32	2	3	0	0	5	18	19	37	36
IND E	0	0	4	2	3	0	3	1	13	0	0	0	0	0	10	3	13	6
MANF E	0	0	0	0	0	0	0	0	0	13	2	0	0	15	13	2	15	18
MECH E	0	0	49	2	125	7	255	26	484	38	4	29	4	75	496	43	539	538
SYS E	0	0	0	0	0	0	0	0	0	14	7	0	0	21	14	7	21	13
FR ENGR	396	79	310	64	49	15	8	1	922	0	0	0	0	0	763	159	922	834
ENGR	396	80	459	88	487	119	874	161	2644	240	67	121	34	462	2557	549	3106	2945
BUS AD	0	0	0	0	0	0	0	0	0	7	3	0	0	10	7	3	10	0
BUS&MS	15	11	18	13	13	12	29	22	133	0	0	0	0	0	75	58	133	113
ECON	0	1	0	2	5	2	2	2	14	0	0	0	0	0	7	7	14	14
IS&T	3	1	9	2	21	2	28	6	72	24	9	0	0	33	85	20	105	106
M&IS UND	2	2	4	2	2	0	2	1	15	0	0	0	0	0	10	5	15	16
M&IS	20	15	31	19	41	16	61	31	234	31	12	0	0	43	184	93	277	249
CER E	0	0	10	2	8	8	16	18	62	3	1	13	4	21	50	33	83	80
GEOL E	1	0	1	1	5	0	17	8	33	4	3	6	1	14	34	13	47	51
GEO & GP	4	3	4	1	6	5	13	9	45	9	7	8	2	26	44	27	71	72
MAT E	0	0	0	0	0	0	0	0	0	14	3	3	2	22	17	5	22	17
MET E	0	0	11	2	14	3	29	6	65	8	0	11	0	19	73	11	84	74
M&M UND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
MIN E	0	0	9	3	25	2	38	4	81	0	0	7	2	9	79	11	90	86
NUCL E	0	0	8	1	25	3	42	10	89	4	1	3	1	9	82	16	98	92
PETR E	0	0	4	0	9	0	13	1	27	8	1	2	0	11	36	2	38	29
FR ENGR	69	13	45	12	9	2	3	0	153	0	0	0	0	0	126	27	153	103
MEER	74	16	92	22	101	23	171	56	555	50	16	53	12	131	541	145	686	605
NON DG	18	13	1	1	1	0	1	1	36	1	9	0	0	10	22	24	46	42
CAMPUS TOTAL	574	171	688	196	720	226	1282	355	4212	392	135	231	77	835	3887	1160	5047	4748
	EXTENDED LEARNING																	
AERO E	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	1	1
CIV E	0	0	0	0	0	0	0	0	0	27	9	1	0	37	28	9	37	44
COMP E	0	0	0	0	0	0	0	0	0	7	2	0	0	9	7	2	9	6
CP SC	0	0	0	0	0	0	0	0	0	8	3	0	0	11	8	3	11	5
ELEC E	0	0	0	0	0	0	0	0	0	7	0	0	0	7	7	0	7	6
E MGT	0	0	0	0	0	0	0	0	0	54	18	8	0	80	62	18	80	79
E MECH	0	0	0	0	0	0	0	0	0	8	0	0	0	8	8	0	8	3
ENVR E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
GEOL E	0	0	0	0	0	0	0	0	0	6	0	0	0	6	6	0	6	5
GEO & GP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
GEOTECH	0	0	0	0	0	0	0	0	0	10	0	0	0	10	10	0	10	0
IS&T	0	0	0	0	0	0	0	0	0	9	5	0	0	14	9	5	14	10
MANF E	0	0	0	0	0	0	0	0	0	8	0	0	0	8	8	0	8	10
MECH E	0	0	0	0	0	0	0	0	0	10	1	2	0	13	12	1	13	13
MIN E	0	0	0	0	0	0	0	0	0	24	4	0	0	28	24	4	28	23
PHYS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
SYS E	0	0	0	0	0	0	0	0	0	177	42	0	0	219	177	42	219	189
NON DG	10	11	0	0	0	0	1	0	22	27	2	0	0	29	38	13	51	61
EXT LEARN TOTAL	10	11	0	0	0	0	1	0	22	382	87	11	0	480	404	98	502	474
UMR TOTAL	584	182	688	196	720	226	1283	355	4234	774	222	242	77	1315	4291	1258	5549	5222

NOTE: 129 CO-OP students are included in the campus total  
22 CDIS students are included in the distance total  
96 EEC students are included in distance total  
94 New transfer students are included in the campus total

101 included one year ago  
29 included one year ago  
103 included one year ago  
95 included one year ago

UNIVERSITY OF  
MISSOURI-ROLLA



**OFFICE OF THE REGISTRAR**

103 Parker Hall  
1870 Miner Circle  
Rolla, MO 65409-0930  
Phone: 573.341.4181  
Fax: 573.341.4362  
registrar@umr.edu  
campus.umr.edu/registrar

**University of Missouri - Rolla  
Priority Registration Report  
Spring Semester 2007  
(includes distance students)**

	SP 2006	SP 2007	
10/30/2006	156	113	
10/31/2006	167	168	
11/1/2006	491	482	
11/2/2006	611	538	
11/3/2006	550	560	
11/4/2006	40	20	
11/5/2006	29	21	
11/6/2006	468	453	
11/7/2006	493	508	
11/8/2006	510	474	
11/9/2006	180	360	
11/10/2006	73	126	
11/12/2006	10	12	
11/13/2006	78	24	
11/14/2006	50	64	
11/15/2006	44	67	
11/16/2006	40	62	
11/27/2006	125	134	
12/4/2006	150	191	
12/11/2006	126	196	
12/18/2006	163	212	
12/26/2006	64	130	
1/2/2007	91	99	
<b>Total:</b>	<b>4,709</b>	<b>5,014</b>	<b>6.5%</b>





**UMR**

# **RESEARCH**



UNIVERSITY OF  
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- ◆ Proposal activities through January 2007
  - Proposals awarded: \$22.6M (up 7.5%)
  - Proposals submitted: \$66.4M (down 22%)
- ◆ Externally sponsored grant and contract expenditures through January 2007: \$19.1M (down 16.7%)

## FY 07: Proposals Awarded through January

	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Totals
Biol. Sci.	0	5,000	0	0	0	0	75,000						80,000
Chem.	612,910	12,667	120,000	78,400	18,562	0	0						842,539
Comp. Sci.	294,281	0	87,160	0	0	0	0						381,441
Engl. & Tech. Comm.	0	0	0	0	0	0	0						0
Hist/PS	0	0	0	0	0	0	0						0
Math/Stat	0	0	0	0	0	30,695	51,294						81,989
Phil.	0	0	0	0	0	0	0						0
Phys.	273,910	-20,668	98,432	20,668	7,556	0	100,000						479,899
Psych.	98,604	98,152	0	0	0	0	0						196,756
<b>A&amp;S Totals:</b>	<b>1,279,706</b>	<b>95,151</b>	<b>305,592</b>	<b>99,068</b>	<b>26,118</b>	<b>30,695</b>	<b>226,294</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,062,624</b>
Materials Sci. & Eng.	265,000	580,476	385,513	294,984	1,360,961	464,176	698,670						4,049,781
Mining & Nuclear Eng.	840,818	172,965	144,713	330,583	52,077	14,189	0						1,555,344
Geol. Sci. & Eng.	10,000	172,642	130,000	30,000	11,789	161,914	164,507						680,852
<b>SoMEER</b>	<b>1,115,818</b>	<b>926,083</b>	<b>660,226</b>	<b>655,567</b>	<b>1,424,827</b>	<b>640,279</b>	<b>863,177</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,285,978</b>
Interdisciplinary Eng.	50,000	6,000	77,000	0	0	0							133,000
Chem. & Biol. Eng.	1,490	2,500	10,175	14,450	271,600	3,991							304,206
Civil, Arch. & Env. Eng.	54,470	416,115	272,080	457,038	38,593	2,000	25,000						1,265,296
Elec. & Comp. Eng.	15,000	316,937	1,424,846	372,170	486,390	106,985	464,966						3,187,295
Engr. Mgt. & Sys. Eng.	0	158,620	0	499,642	232,800	0	20,000						911,062
Mech. & Aero. Eng.	514,280	326,534	60,512	105,000	1,734,744	354,795	83,999						3,179,864
Dean's Office	0	0	0	0	0	0							0
<b>SOE Totals</b>	<b>635,240</b>	<b>1,226,707</b>	<b>1,844,613</b>	<b>1,448,300</b>	<b>2,764,127</b>	<b>467,771</b>	<b>593,965</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8,980,723</b>
Econ. & Finance	0	0	0	0	0	0	37,551						37,551
Business Admin.	98,604	861,940	0	0	60,000	0	0						1,020,544
Info Sci. & Tech.	116,400	0	0	0	0	0	0						116,400
Dean's Office	0	0	0	0	0	0	0						0
<b>SMS</b>	<b>215,004</b>	<b>861,940</b>	<b>0</b>	<b>0</b>	<b>60,000</b>	<b>0</b>	<b>37,551</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,174,495</b>
Enrollment Mgt	0	0	0	0	0	0							0
International Affairs	0	0	0	0	0	0							0
Minority Affairs	0	0	0	0	0	0							0
Other	0	10,000	0	620,166	0	11,338	1,980,000						2,621,504
RPDC	21,550	0	659,924	0	678,780	0	7500						1,367,754
KUMR	0	0	0	0	64,978	20,191							85,169
<b>Grand Totals:</b>	<b>3,267,318</b>	<b>3,119,881</b>	<b>3,470,355</b>	<b>2,823,101</b>	<b>5,018,830</b>	<b>1,170,274</b>	<b>3,708,487</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>22,578,247</b>

+7.5% compared to FY 06

**Total: \$22.6M**

## FY 07: Proposals Submitted through January

	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Totals
Biol. Sci.	644,137	209,636	13,774	283,510	42,891	0	137,360						
Chem.	1,041,565	300,749	506,022	494,521	1,474,441	1,029,705							
Comp. Sci.	1,040,264	0	243,880	0	1,352,261	0	936,407						
Engl. & Tech. Comm.	0	0	0	0	0	0	0						
Hist./PS	0	0	0	0	0	0	0						
Math/Stat	0	0	51,294	194,855	6,600	30,695	0						
Phil.	0	0	0	0	131,126	0	22,050						
Phys.	40,000	0	1,016,960	580,526	811,386	130,320	420,928						
Psych.	98,604	98,152	0	0	63,336	0							
<b>A&amp;S Totals:</b>	<b>2,864,569</b>	<b>608,537</b>	<b>1,831,930</b>	<b>1,553,412</b>	<b>3,882,041</b>	<b>1,190,720</b>	<b>1,516,745</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13,447,954</b>
Materials Sci. & Eng.	699,707	2,050,548	214,718	466,553	7,320,522	1,237,712	129,562						
Mining & Nuclear Eng.	846,244	73,200	2,240	457,195	57,691	14,189	122,438						
Geol. Sci. & Eng.	0	300,260	0	211,207	163,666	411,937	391,984						
<b>SoMEER</b>	<b>1,545,951</b>	<b>2,424,007</b>	<b>216,958</b>	<b>1,134,955</b>	<b>7,541,879</b>	<b>1,663,838</b>	<b>643,983</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,171,570</b>
Interdisciplinary Eng	0	93,724	61,029	462,090	462,230	325,573	0						
Chem & Biol. Eng.	1,053,594	736,242	358,703	0	400,312	252,268	16,504						
Civil, Arch. & Env. Eng.	45,000	1,050,445	381,019	805,405	950,935	2,755,468	649,945						
Elec. & Comp. Eng.	1,683,831	2,718,983	532,688	2,464,835	3,163,675	62,000	3,011,935						
Engr. Mgt. and Sys. Eng.	499,640	188,151	79,907	0	521,278	70,936	392,217						
Mech. & Aero. Eng.	1,287,543	878,306	323,027	921,775	2,530,063	451,143	110,646						
Dean's Office	0	0	0	0	0	0							0
<b>SOE Totals</b>	<b>4,569,608</b>	<b>5,665,851</b>	<b>1,736,371</b>	<b>4,654,105</b>	<b>8,028,493</b>	<b>3,917,388</b>	<b>4,181,247</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>32,753,063</b>
Econ. & Finance	0	0	0	0	0	37,551	0						
Business Admin.	98,604	861,940	0	0	0	0	0						
Info Sci. & Tech.	0	0	0	0	0	0	0						
Dean's Office	0	0	0	0	0	0	0						
<b>SMIS</b>	<b>98,604</b>	<b>861,940</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>37,551</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>998,095</b>
Enrollment Mgt.	0	0	0	0	0	0	0						0
International Affairs	0	0	0	0	0	0	0						0
Grad/UG Studies	0	0	0	0	0	0	0						0
Other	0	10,000	0	505,604	1,338	0	1,980,000						2,496,942
RPDC	1,332,038	0	0	0	0	0	7,500						1,339,538
KUMR	0	0	0	0	129,955	20,191	0						150,146
<b>Grand Totals:</b>	<b>10,410,769</b>	<b>9,570,335</b>	<b>3,785,259</b>	<b>7,848,077</b>	<b>19,583,706</b>	<b>6,829,688</b>	<b>8,329,475</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>66,357,308</b>

-22% compared to FY 06

**Total: \$66.4M**



**UMR**

# **UNDERGRADUATE AND GRADUATE STUDIES**



**UNIVERSITY OF  
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## Reminder: Academic Advising Awards

- The Office of Undergraduate & Graduate Studies is currently accepting nominations for the **2006/07 Outstanding Academic Advising Awards**.
- Seven annual advising awards are presented to a faculty member from each school/college, a staff advisor a freshman advisor and a transfer student advisor. Each award recipient will receive \$500.00, an awards plaque, and mention on the *College/School Outstanding Academic Advisor Awards Plaque*. Awards will be announced during a campus-wide reception on April 25, 2007 in the Havener Center.
- **Eligibility:** Any faculty or staff member who serves as an academic advisor to UMR students is eligible to receive this award. Upper level administrators, including department chairs and directors, are not eligible for this award. Advisors are not eligible to receive the award in two consecutive years

- **Nominations/Deadline:** All UMR students, faculty and staff are welcome to submit award nominations. Nomination packets must include the nomination form and a supporting statement, and may include up to three letters of support.
- Nomination packets (including the nomination form, supporting statement and up to three letters of support) are due by 4:30 PM on **February 28, 2007**. Submit nomination packets to the Selection Committee Chair, c/o the Office of Undergraduate & Graduate Studies, 209 Norwood Hall.
- Nomination forms are available on line at <http://www.umar.edu/ugs/advisorrecognition.htm>. If you have questions, please contact Amy Gillman at 341-7600/ [gillman@umar.edu](mailto:gillman@umar.edu) .

## New-Academic Advising Webinar

The Office of Undergraduate & Graduate Studies is sponsoring a National Academic Advising Association (NACADA) webinar for UMR in February.

- This NACADA Webinar, titled ***"Components of a Successful Faculty Advising Program: Institutional Commitment, Professional Development, Incentives, and Recognition"***, will be broadcast on February 22, 2007 at 1:00 PM central time in the Havener Center. All UMR advisors are welcome to attend. There is no cost for participation.
- To register, please contact [gillman@umr.edu](mailto:gillman@umr.edu) no later than Monday, February 12, 2007.

## Reminder: Academic Alert System

- The Office of Undergraduate and Graduate Studies would like to remind all faculty to utilize the Academic Alert System this semester.
- The Academic Alert System is an on-line version of the former Early Warning System. The Academic Alert System helps students become aware of their academic status in the courses they are taking. The system includes a customized reporting feature for use by faculty and department chairs.
- On-line access is available at:  
<http://campus.umn.edu/acalert>

## **Achieving Academic Excellence-Student Success Workshop Series**

- The Office of Undergraduate & Graduate Studies is sponsoring a series of workshops for UMR students who are on probation or academically deficient. The Achieving Academic Excellence series began January 22, and will run for six week, ending February 26. Participating faculty and staff include: Dr. Diana L. Ahmad, Dr. Jeff Cawlfeld, Dr. Harvest L. Collier, Stephanie Fitch, Dr. Ralph Flori, Amy M. Gillman, Dr. Larry Gragg, Dr. F. Scott Miller, and Dr. Stephen Raper.

## **Reminder: Opportunities for Undergraduate Research Experiences (OURE)**

- Applications for 2007/08 OURE projects are due April 1, 2007. To download the application, visit our web site at:  
<http://www.umsr.edu/ugs/OURE.htm>

## Residential College Learning Communities

- With the opening of the new building in Fall 2007, UMR is planning for new Residential College Learning Communities:
- **Seeds of Success, *Dr. Ralph Flori, Instructor***
- This learning community, aimed primarily at (but not limited to) first-year students, is designed to do the following:

- Create and foster a living-learning-doing intellectual culture that will sow and nurture seeds of personal, intellectual, academic, social, and ethical success.
- The course will introduce students to some classics of business, leadership and success literature, such as Stephen Covey's "The Seven Habits of Highly Effective People", and Jim Collins' "Good to Great."
- Participating students will engage in short readings, discussion and debate on these texts and others, including ones that they select. Students will be encouraged to think deeply and reflectively about these texts, their meaning, and how they apply to one's life.
- Students will be encouraged to create their own core values, ethical commitments, life goals, and philosophical underpinnings.



- Discussions will occasionally focus on examples of business and political leaders in the news.
- Students will be encouraged to use tools of success such as planners, calendars, journals, which promote organization and reflection.

- **Undergraduate Research Conference**
- The 3rd Annual UMR Undergraduate Research Conference will be held **April 11, 2007** at the UMR Havener Center. This event provides an opportunity for University of Missouri-Rolla undergraduates to showcase their research efforts to the campus community and to the public.
- On-line registration is required in 2007. For more information, visit the web site at: <http://www.umsr.edu/ugs/UGRC.html> .
- The registration deadline is **MARCH 16, 2007**.



**UMR**

# **SCHOOL OF EXTENDED LEARNING**



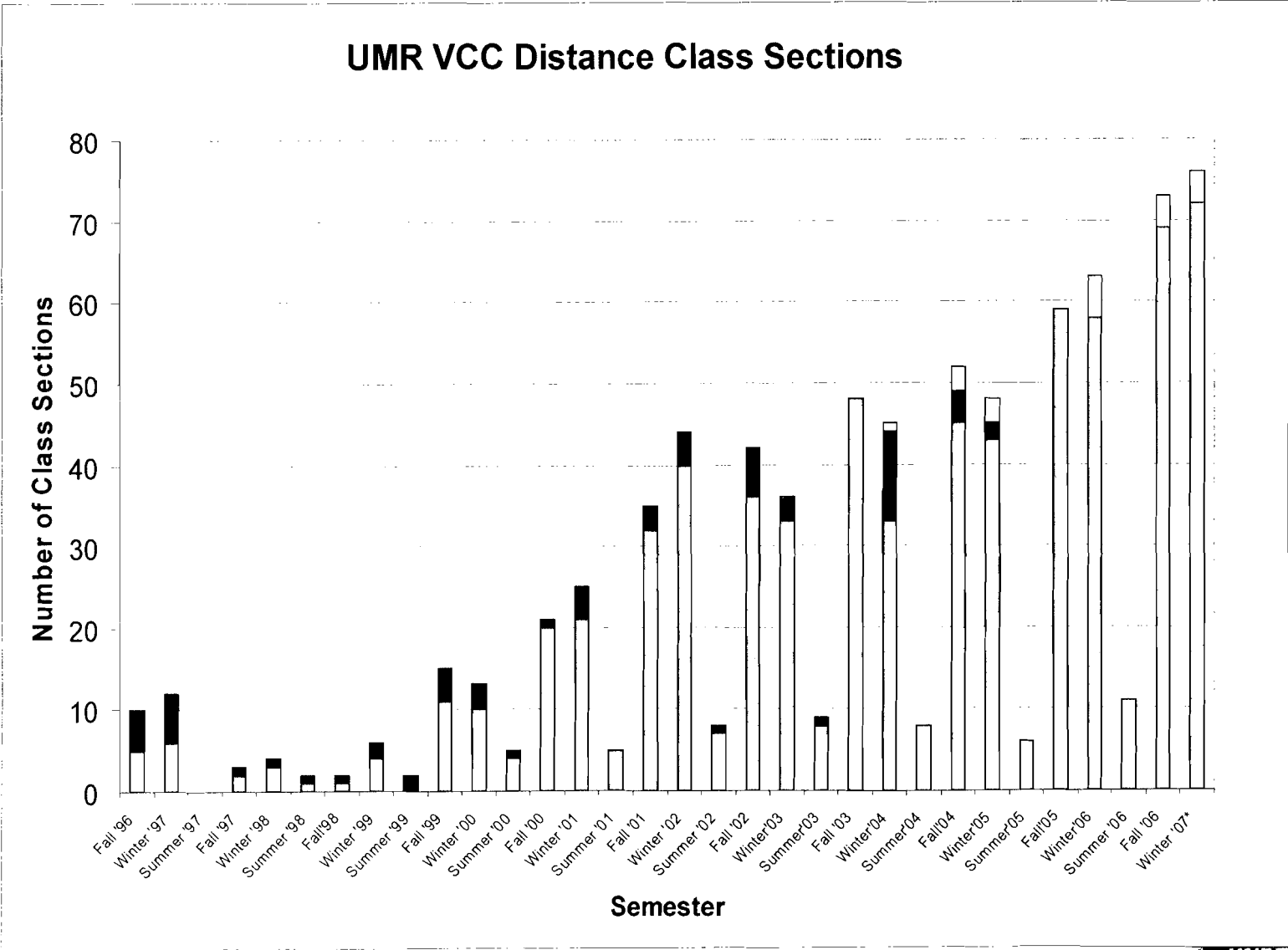
**UNIVERSITY OF  
MISSOURI-ROLLA**

## **School of Extended Learning**

- The Video Communications Center has added three new video classrooms to accommodate the increasing volume of classes being taught by UMR faculty. These rooms are:
  - » 130 McNutt Hall
  - » 316 UMR Library
  - » Satellite classroom at the EEC in St. Louis



# School of Extended Learning



## School of Extended Learning

- Increased enrollment in distance courses is due in part to recruiting visits to companies throughout the US.

Recent visits include:

- » Boeing
- » Northrup Grumman
- » Master Card
- » URS Corp.
- » Burns & McDonnell

## **School of Extended Learning**

- The Video Communications Center is in the process of building UMR's first all digital video classroom. This facility will be capable of producing a higher quality video product than currently possible in the existing classrooms. It should be available for the FS 2007 term and is located in G14 of the UMR Library.

# School of Extended Learning

International Affairs reports that new enrollees for WS 2007 are substantially down as reflected in the table below. The decline reflects the increased competition for students from universities around the world and has potential serious impact on UMR graduate enrollment if the trend is not reversed. Plans for increased international recruiting are being developed.

<u>Semester</u>	<u>No. of New Enrollees</u>
WS 2003	56
WS 2004	49
WS 2005	81
WS 2006	96
WS 2007	39



## **School of Extended Learning**

- The International Affairs Office has announced the signing of a linkage agreement with Keimyung University of Daegu, south Korea. This agreement was sponsored by Dr. Minsu Choi of UMR's Electrical and Computer Engineering Department.



**UMR**

# **INFORMATION TECHNOLOGY**



**UNIVERSITY OF  
MISSOURI-ROLLA**

# Information Technology

## Applications/Enterprise Reporting

### Research Repository

#### •Spring - Fall 2006:

- Sub Project 1A - Completed - Repository Initiation, Discovery, Planning, Architecting
- Sub Project 1B - Completed - Repository Framework, Cataloging App (WDK) and Post Prints Beta

#### •Winter 2006/2007

- Sub Project 2A - In Process - Theses and Dissertations
- Sub Project 2B - In Process - Research Contribution Interface
- Sub Project 2C - In Process - Branding, Identity, Marketing, Communications

#### •Spring 2007

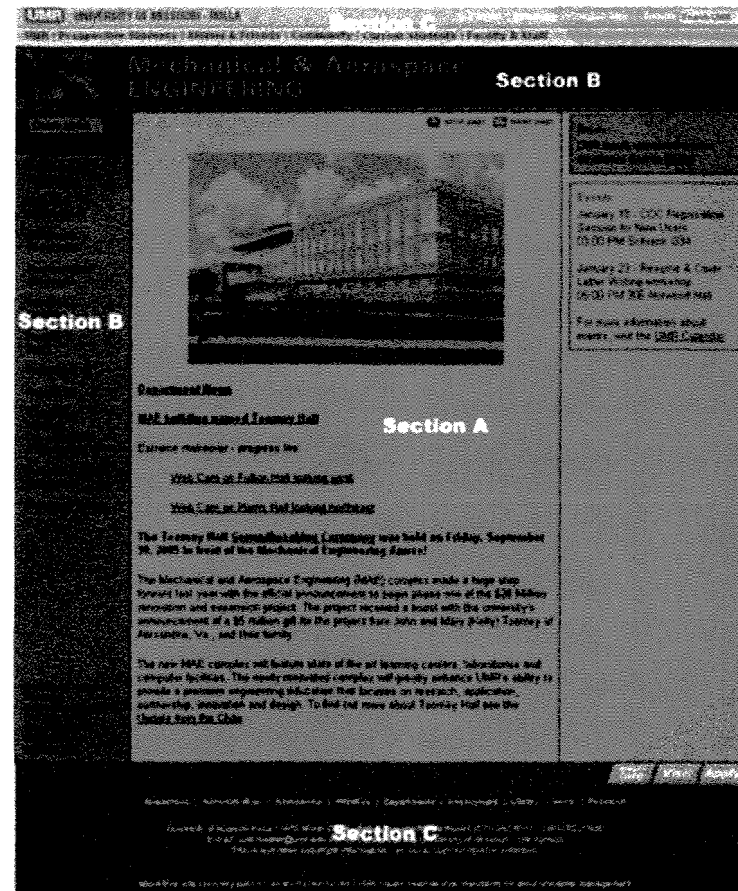
- Sub Project 3A - In Process - Research Funding, Process and Personnel
- Sub Project 3B - Repository Go-Live

UMR UNIVERSITY OF MISSOURI-ROLLA																													
<a href="#">UMR</a>   <a href="#">Prospective Students</a>   <a href="#">Alumni &amp; Friends</a>   <a href="#">Community</a>   <a href="#">Current Students</a>   <a href="#">Faculty &amp; Staff</a> <a href="#">Academic</a>   <a href="#">Athletics</a>   <a href="#">Departments</a>   <a href="#">Employment</a>   <a href="#">Home</a>   <a href="#">Library</a>   <a href="#">Research</a>   <a href="#">Administration</a>																													
<h2>Research Repository</h2>																													
<a href="#">Overview</a> <a href="#">Scholarly Communication</a> <a href="#">UMR Implementation</a> <a href="#">Related Readings and Sites</a> <a href="#">Browse Repository</a> <a href="#">Search</a> <a href="#">Contact Information</a>	<h3>Papers by Title</h3> <table> <thead> <tr> <th>Issued Date</th><th>Title</th><th>UMR Author(s)</th></tr> </thead> <tbody> <tr> <td>2000</td><td><a href="#">2000 First Annual Workshop on Mobile and Ad Hoc Networking and Computing, MobileHOC '00, No. 00E1664</a></td><td>Venayagamoorthy, Ganesh K., Harley, R.G.</td></tr> <tr> <td>1997</td><td><a href="#">A 50 kilowatt distributed and connected photovoltaic generation system for the University of Wyoming</a></td><td>Chowdhury, Badrul H., Mukherjee, S., Gupta, J.J., Hamann, J.C., Dinwiddie, T., Shuger, D.</td></tr> <tr> <td></td><td><a href="#">New Approach To Low Cost Tailor-Made By pH Reactive Spinning and Sol-Gel Method</a></td><td>Dae-Hyuk Kwon, Byung-Wook Cho, Kim Chang-Soo, Byung-Ku Sohn</td></tr> <tr> <td></td><td><a href="#">hp-adaptive differential IIR sub-band COO&amp;R/sub-band testable static Adaptive</a></td><td>Al-Asadi, Walid K., Jayaramana, A.P., Malaya, V.K.</td></tr> <tr> <td>1996</td><td><a href="#">A comparison of an FFTD thin-slit algorithm and method of moments modeling slots near corners</a></td><td>Ma, K.-P., Dhanraj, James L., Hubing, Todd H., Van Doren, T.P.</td></tr> <tr> <td>1999</td><td><a href="#">A continuously online trained artificial neural network classifier a hydrogenerator</a></td><td>Venayagamoorthy, Ganesh K., Harley, R.G.</td></tr> <tr> <td>1998</td><td><a href="#">A feasibility study of on-line excitation system parameter estimation</a></td><td>Ludwig, E., Crow, Marissa L., Erickson, Kevin Todd, Shah, K.</td></tr> <tr> <td>1997</td><td><a href="#">A feasibility study of on-line excitation system parameter estimation for</a></td><td>Ludwig, E., Crow, Marissa L.</td></tr> </tbody> </table>		Issued Date	Title	UMR Author(s)	2000	<a href="#">2000 First Annual Workshop on Mobile and Ad Hoc Networking and Computing, MobileHOC '00, No. 00E1664</a>	Venayagamoorthy, Ganesh K., Harley, R.G.	1997	<a href="#">A 50 kilowatt distributed and connected photovoltaic generation system for the University of Wyoming</a>	Chowdhury, Badrul H., Mukherjee, S., Gupta, J.J., Hamann, J.C., Dinwiddie, T., Shuger, D.		<a href="#">New Approach To Low Cost Tailor-Made By pH Reactive Spinning and Sol-Gel Method</a>	Dae-Hyuk Kwon, Byung-Wook Cho, Kim Chang-Soo, Byung-Ku Sohn		<a href="#">hp-adaptive differential IIR sub-band COO&amp;R/sub-band testable static Adaptive</a>	Al-Asadi, Walid K., Jayaramana, A.P., Malaya, V.K.	1996	<a href="#">A comparison of an FFTD thin-slit algorithm and method of moments modeling slots near corners</a>	Ma, K.-P., Dhanraj, James L., Hubing, Todd H., Van Doren, T.P.	1999	<a href="#">A continuously online trained artificial neural network classifier a hydrogenerator</a>	Venayagamoorthy, Ganesh K., Harley, R.G.	1998	<a href="#">A feasibility study of on-line excitation system parameter estimation</a>	Ludwig, E., Crow, Marissa L., Erickson, Kevin Todd, Shah, K.	1997	<a href="#">A feasibility study of on-line excitation system parameter estimation for</a>	Ludwig, E., Crow, Marissa L.
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# Information Technology

## Academic Site Migration in Documentum

- Updated the entire docbase security schema
- Converted all the base .xml templates and content to the new standard, which vastly improves content author experience
- Converted all sites to the new visual templates & global navigation in preparation for the restructuring
- Consolidated our reusable content area from 850 directories to 70
- Replaced the old flat file structure with a useable content directory structure for better information navigation
- Converted and republished all academic web content
- Expanded and improved departments' abilities to edit their content, including their home page



## Department Web Pages Editing Diagram

Department:  
Section A: Content Sections  
Populated by department

News & Events Optional  
Events: Populated dynamically from the UMR calendar. Event submission is done by each department in the calendar application.

News: Populated dynamically by UMR's Public Relations office, with the capability of featuring news relative to a specific site or site.

Department & EMarComm  
Section B Top: Banner Image  
The EMarComm office will work with the department to customize a banner for the site.

Section B Left: Menu  
EMarComm works with the department to develop the most robust menu while assisting with providing a consistent user experience and full featured link offerings.

Section C Top: Universal & Global Navigation  
Static navigation on all official UMR websites.

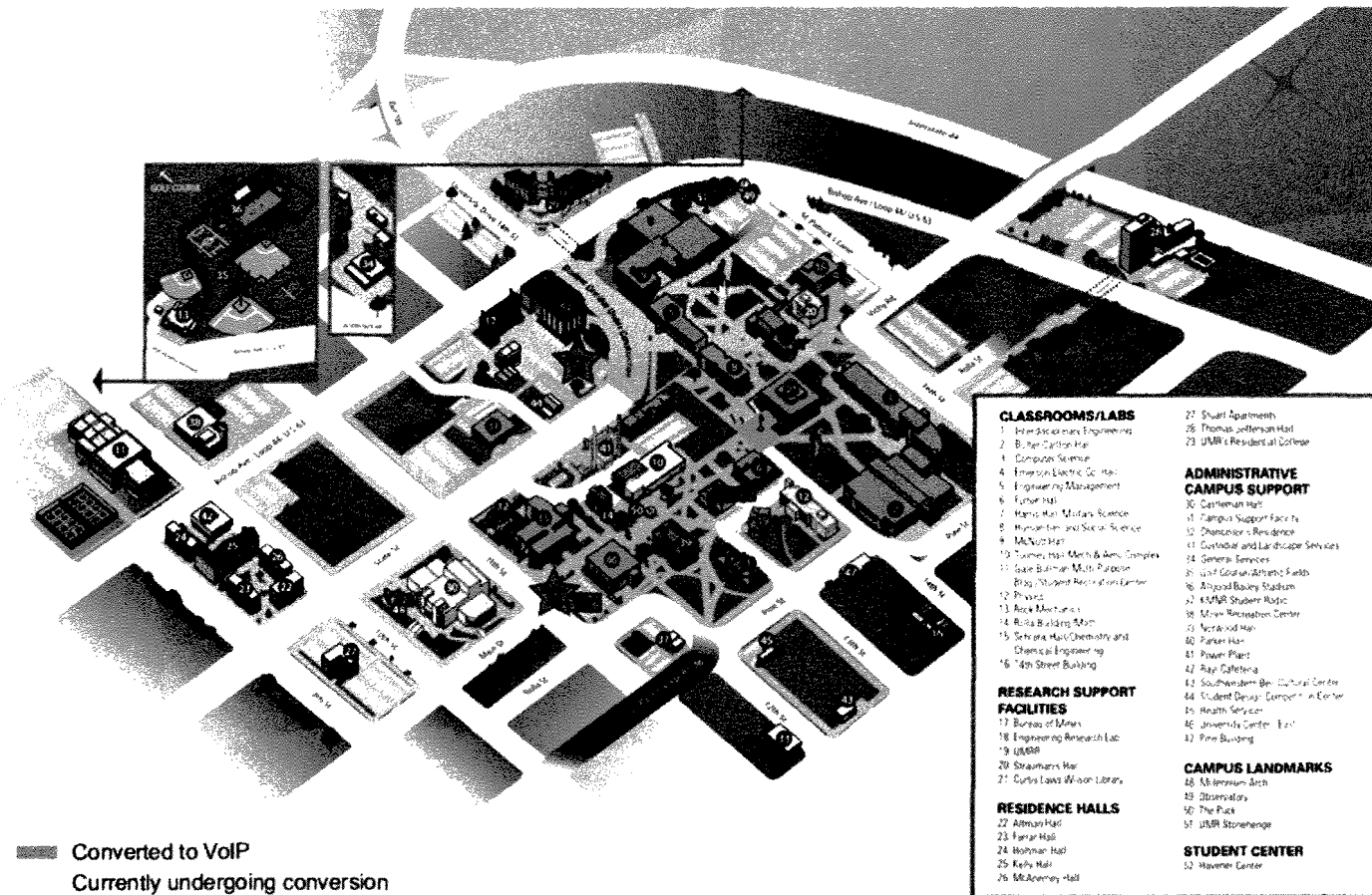
Section C Bottom: Footer  
Static navigation on all official UMR websites.

# Information Technology

## Networks and Computing

### Voice-Over IP Telephony Project

- Over 1,160 VoIP phones deployed



# Information Technology

## Solutions Center

### **Desktop Enhancement**




- FY2006 cycle complete with 320 new computers deployed
- FY2007 in progress with 41 new computers deployed



# Information Technology

## Technology Classrooms

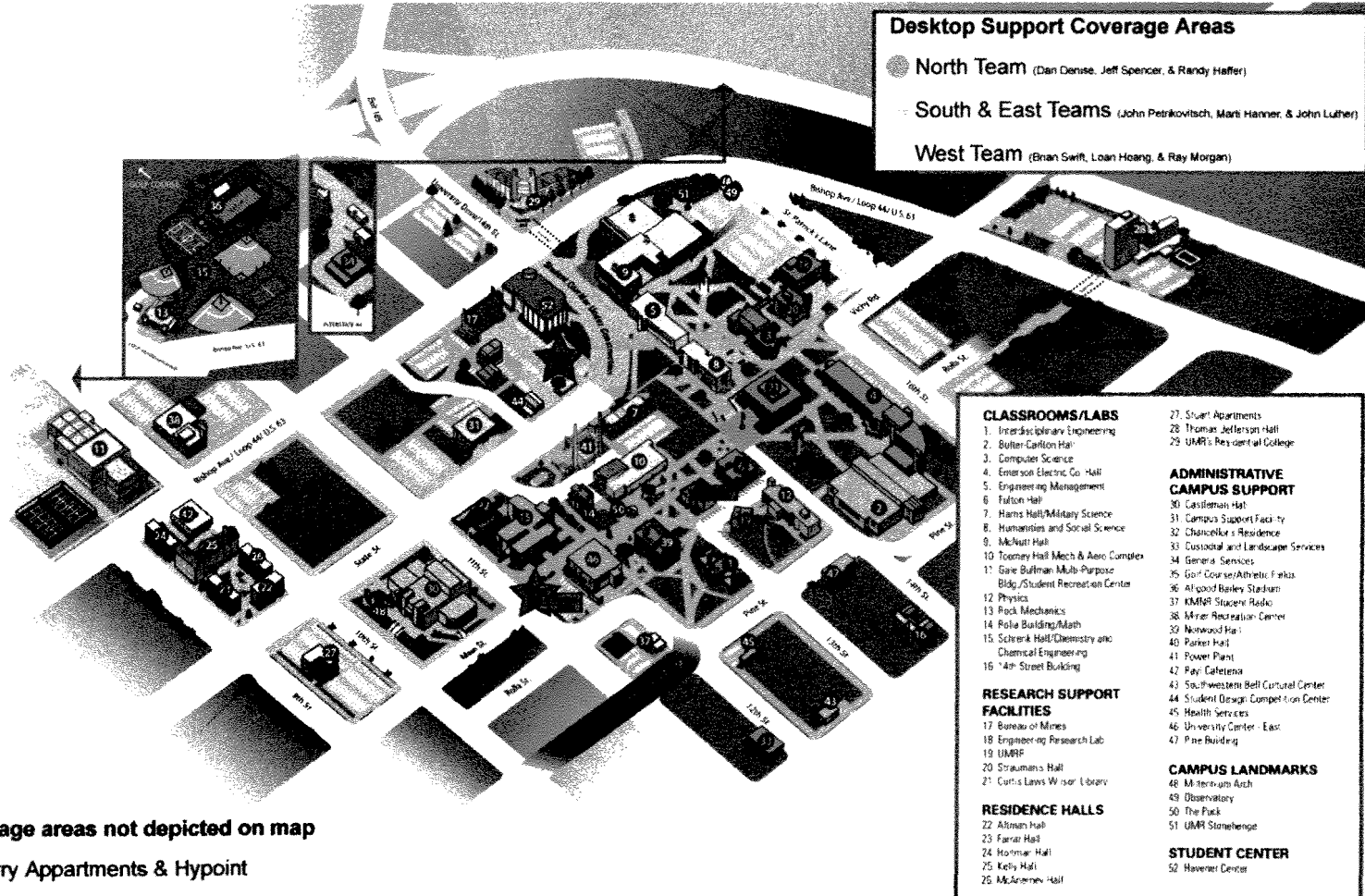
- 60% of centrally scheduled classrooms (53 out of 87) were outfitted with a standard technology package to support multimedia teaching needs during the Fall Semester 2006.
- Work has begun on the remaining 40% of classrooms and will be completed by the Fall Semester 2007.

Building/Room #		Deployment Schedule	Status
	Civil Engineering Building 120	Fall Semester 2006	Completed
	Civil Engineering Building 121	Fall Semester 2006	Completed
	Civil Engineering Building 124	Fall Semester 2006	Completed
	Civil Engineering Building 125	Fall Semester 2006	Completed
	Civil Engineering Building 213	Fall Semester 2006	Completed
	Civil Engineering Building 215	Fall Semester 2006	Completed
	Civil Engineering Building 216	Fall Semester 2006	Completed
	Civil Engineering Building 313	Fall Semester 2006	Completed
	Civil Engineering Building 315	Fall Semester 2006	Completed
	Civil Engineering Building 318	Fall Semester 2006	Completed
	Humanities and Social Sciences Building 103	Fall Semester 2006	Completed
	Humanities and Social Sciences Building 204	Fall Semester 2006	Completed
	Campus Support Facility 109	Fall Semester 2006	Completed
	Computer Science Building 202	Fall Semester 2006	Completed
	Computer Science Building 206	Fall Semester 2006	Completed
	Computer Science Building 207	Fall Semester 2006	Completed
	Computer Science Building 209	Fall Semester 2006	Completed
	Computer Science Building 209A	Fall Semester 2006	Completed
	Computer Science Building 216	Fall Semester 2006	Completed
	Emerson Electric Company Hall 101	Fall Semester 2006	Completed
	Emerson Electric Company Hall 112	Fall Semester 2006	Completed
	Emerson Electric Company Hall 239	Fall Semester 2006	Completed
	Emerson Electric Company Hall G31	Fall Semester 2006	Completed

# UMR

# Information Technology

Desktop Sub Stations now in place



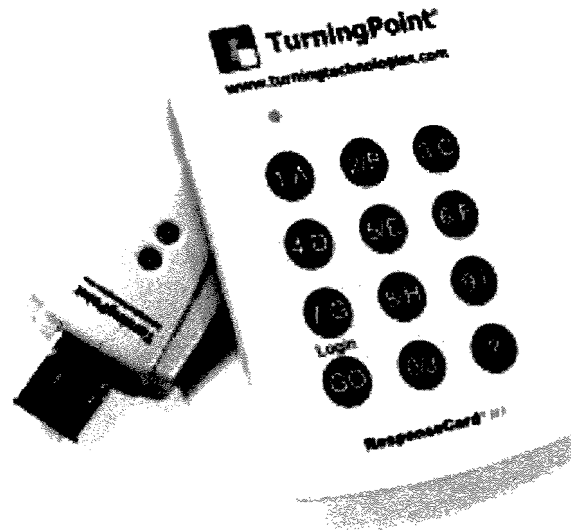
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# Information Technology

## Project Management

- **Personal Response System expansion**
  - Expansion includes approximately 11 disciplines, 18 faculty members and 30% of the undergraduate student population
  - 19 Classrooms are outfitted for PRS instruction

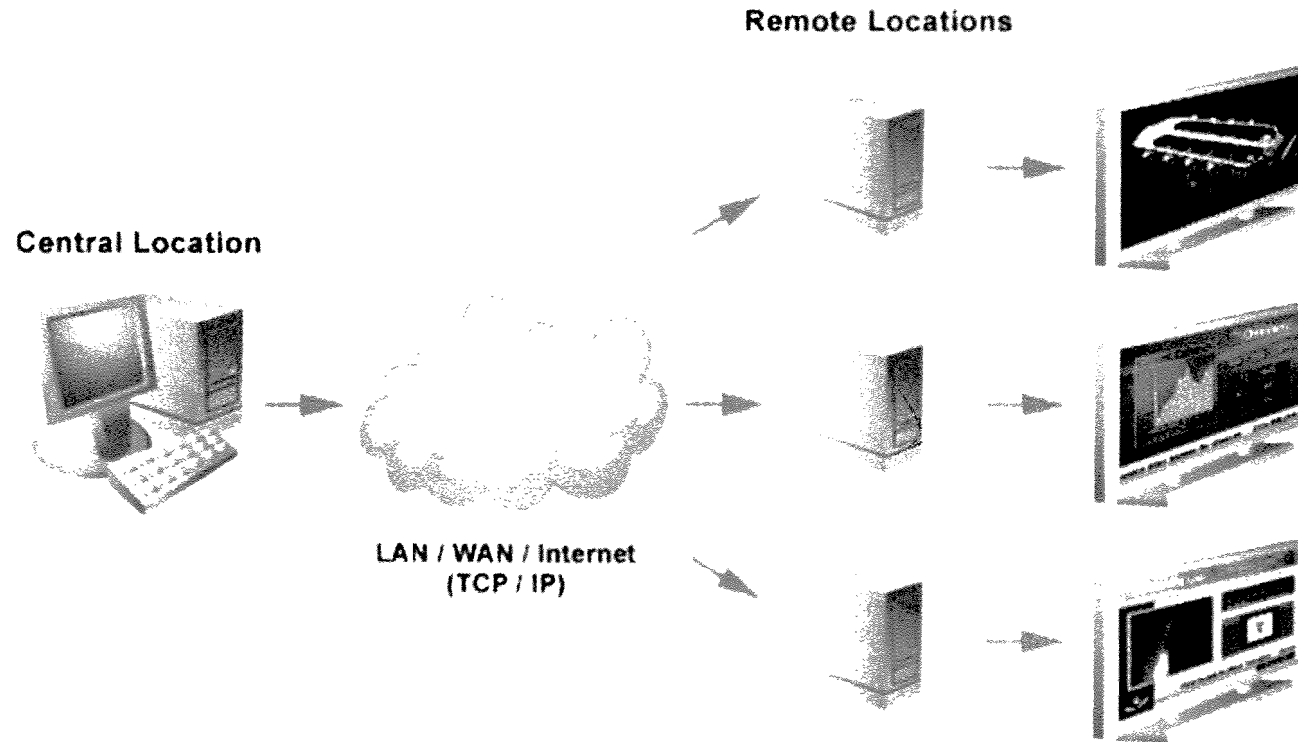


# Information Technology

## Project Management

- **MinerNet Information Network pilot**

- Various campus locations will be equipped with multimedia equipment that will allow for the dissemination of student centric information. (Want to know what's happening on campus next week? MinerNet will keep you informed.)




UMR

# Information Technology

MinerNet Sample Content

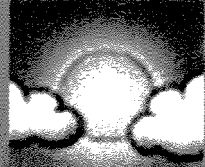
Golden Dragon Acrobats  
Asian Artist Productions



**Campus Performing Arts Series**

Monday, February 5 at Leach Theatre  
\$28 adults/\$18 youth

**Today**



21 F  
Clear  
Wind: S at 8 mph  
Humidity: 93%

43 F / 26 F

**rollaweather**

**Resume & Cover Letter Writing Workshop**  
5:00 pm at 306 Norwood

**Free Film Series - "Science of Sleep"**  
7:00 pm at Leach Theatre

**minnowans**

miner net

iver says he was partly swallowed by shark · Man arrested for smuggling 500 pai

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# **SCHOOL OF ENGINEERING**



**UNIVERSITY OF  
MISSOURI-ROLLA**



**UMR**

# **ENGINEERS WEEK BANQUET**

- Location:** Zeno's Steak House, Rolla
- Date:** Friday, February 16, 2007
- Time:** 6:00 p.m. Social Hour (Cash Bar)  
Dinner will be served at 7:00 p.m.
- Speaker:** UMR Chancellor John F. Carney III
- Dinner:** Cost is \$16.00 per person, payable at the door  
Spouses are welcome
- Reservations:** Contact Angie Rolufs  
University of Missouri-Rolla  
Telephone (573) 341-7500  
Email: [rolufsa@umr.edu](mailto:rolufsa@umr.edu)
- Coordinated By:** Rolla Chapter, Missouri Society of Professional Engineers (MSPE)  
Mid-Missouri Section, American Society of Civil Engineers (ASCE)  
Fort Leonard Wood Post, Society of American Military Engineers (SAME)



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Memo To: Academic Council  
From: UMR Campus Curriculum Committee Meetings  
RE: January 30, 2007 Meeting

**The UMR Campus Curricula Committee recommends to the Academic Council that the curriculum changes and degree proposals on the following DC forms be approved.**

**Approved DC forms:**

DC 0213, College of Arts and Sciences, Chemistry, approved effective Fall 2007. A proposal to change the current curriculum for the BA in Chemistry by changing the requirement of Chem 51 & 52 to Chem 151.

DC 0214, College of Arts and Sciences, Chemistry, approved effective Fall 2007. A proposal to change the current curriculum for the BS in Chemistry (non-ACS certified) by changing the requirement of Chem 51 & 52 to Chem 151 and changing the course title on Chem 251.

DC 0215, College of Arts and Sciences, Chemistry, approved effective Fall 2007. A proposal to change the current curriculum for the BS in Chemistry by changing the requirement of Chem 51 & 52 to Chem 151 and changing the course title on Chem 251.

DC 0216, College of Arts and Sciences, Chemistry, approved effective Fall 2007. A proposal to change the current curriculum for the Biochemistry emphasis area by changing the requirement of Chem 51 & 52 to Chem 151 and changing the course title on Chem 251.

DC 0217, College of Arts and Sciences, Chemistry, approved effective Fall 2007. A proposal to change the current curriculum for the Pre-medicine emphasis area by changing the requirement of Chem 51 & 52 to Chem 151 and changing the course title on Chem 251.

DC 0218, College of Arts and Sciences, Chemistry, approved effective Fall 2007. A proposal to change the current curriculum for the Polymer & Coatings Science emphasis area by changing the requirement of Chem 51 & 52 to Chem 151 and changing the course title on Chem 251.

DC 0220, College of Arts and Sciences, School of Management and Information Systems, School of Engineering, approved effective Fall 2007. A proposal to create an Industrial/Organizational Psychology Master's of Science Degree offered by the department of Psychology in collaboration with the departments of Mathematics and



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Statistics, Information Science and Technology, and Engineering Management and Systems Engineering

**The UMR Campus Curricula Committee recommends to the Academic Council that the course changes on the following CC forms be approved.**

**Approved CC forms:**

CC 7099, Metallurgical Engineering 355, Process Metallurgy Applications was approved at the October 24th Curricula Committee meeting and by Academic Council at their November 9<sup>th</sup> meeting. The form was approved for effective term FS2007 but the department has requested it be changed to Sp2008. The Curricula Committee voted by e-mail on 02/07/07 to approve this change.

CC 7100, Metallurgical Engineering 354, Metallurgical Process Simulation and Control was approved at the October 24th Curricula Committee meeting and by Academic Council at their November 9<sup>th</sup> meeting. The form was approved for effective term FS2007 but the department has requested it be changed to Sp2008. The Curricula Committee voted by e-mail on 02/07/07 to approve this change.

CC 7148, Chemistry 151, Quantitative Chemical Analysis. The following changes are approved effective Fall 2007.

Course Title – Proposed: Analytical Chemistry I

Catalog Description – Proposed: A study of analytical chemistry including an introduction to experimental error, statistics, principles of gravimetric and combustion analysis, chemical equilibrium, acid – base titrations, and electro-analytical determinations.

Credit Hours – Present: Lecture: 3 Lab: 2 Total: 5

Proposed: Lecture: 3 Lab: 1 Total: 4

Prerequisites – Present: Chem 8 Chem 241 and preceded or accompanied by Chem 4 or equivalent training program approved by UMR

Proposed: Chem 3 and preceded or accompanied by Chem 4 or equivalent training program approved by UMR

CC 7149, Chemistry 251, Intermediate Quantitative Analysis. The following changes are approved effective Fall 2007.

Course Title – Proposed: Analytical Chemistry II

Catalog Description – Proposed: A study of analytical chemistry including separation techniques for chemical and biochemical analysis, atomic – molecular mass spectrometry, atomic – molecular spectroscopy, surface analysis with electron spectroscopy, x-ray, and mass spectrometry.

Prerequisites – Present: Chem 4, Chem 223

Proposed: Chem 4, Chem 151, Chem 223, and Chem 241



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CC 7151, Ceramic Engineering 90, The Ceramic Experience. Course deletion approved effective Fall 2007.

CC 7153, Systems Engineering 367, Computational Intelligence. New course approved effective Fall 2007.

Catalog Description: Introduction to Computational Intelligence (CI), Biological and Artificial Neuron, Neural Networks, Evolutionary Computing, Swarm Intelligence, Artificial Immune systems, Fuzzy Systems, & Hybrid Systems, CI application case studies covered include digital systems, control, power systems, forecasting, and time-series predictions.

Credit Hours: 3 hour lecture

Prerequisites: Statistics 217

Co-listings: Computer Engineering 358, Electrical Engineering 367

CC 7154, Engineering Management 207, Economic Analysis of Engineering Projects. New course approved effective Fall 2007.

Catalog Description: This course covers engineering project analysis from an engineering economics perspective. Topics will include: interest, equivalent worth, comparing alternatives, rate of return methods, depreciation and taxes, inflation and price changes, and benefit-cost analysis.

Credit Hours: 2 hour lecture

Prerequisites: None

CC 7155, Chemical Engineering 351, Principles of Environmental Monitoring. The following changes are approved effective Fall 2007.

Catalog Description – Proposed: This course introduces the fundamentals of particle technology, including particle characterization, transport, sampling, and processing. In addition, students will learn about the basic design of some industrial particulate systems and environmental and safety issues related to particulate handling.

Prerequisites – Present: Chem 51, 221, 223, and Physics 23, 24

Proposed: Chem Eng 231 and Physics 24, or graduate standing

CC 7156, Electrical Engineering 444, Stochastic Signal Analysis II. New course approved effective Fall 2007.

Catalog Description: Continuous-time stochastic signals, multi-dimensional signals, Wiener and matched filters, LMS equalization, non-linear systems with random inputs, spectral estimation and Markov chains.

Credit Hours: 3 hour lecture

Prerequisites: Stat 343 or Elec Eng 344

CC 7157, Mechanical Engineering 426, Micro-/Nano-Scale Thermophysics and Energy Transport. New course approved effective Fall 2007.





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**Catalog Description:** Introduces advanced statistical thermodynamics, nonequilibrium thermodynamics, kinetic theory, and quantum theory to analyze thermophysics and energy transport for microscale and nanoscale systems. Covers the fundamental concepts of photons, electrons, and phonons in the forms of waves and particles. Includes applications to ultrafast laser processing.

**Credit Hours:** 3 hour lecture

**Prerequisites:** Mc Eng 325

CC 7158, Electrical Engineering 332, Chemical Engineering 359, Plantwide Process Control. The following change is approved effective Fall 2007.

**Prerequisites – Present:** Ch Eng 251 or graduate standing

**Proposed:** Ch Eng 251, EE 231, EE 235 or graduate standing

**For the information of the Academic Council, the following EC forms have been submitted by the University departments for an experimental course that will be offered in the near future.**

**Approved EC forms:**

EC 1895, Spanish 301, Phonetics and Phonology of Spanish, approved effective Spring 2008.

**Course Description:** Theoretical and practical approach to the phonetics and phonology of Spanish from the dual perspective of the mental representation of the sound system and pronunciation within syllables, words and phrases. Practice in listening comprehension, and sound discrimination with transcription exercises.

**Credit Hours:** 3 hour lecture

**Prerequisites:** Span 80

EC 1898, History 301, Nazi Germany and the Holocaust, approved effective Fall 2007.

**Course Description:** This course focuses on the rise of Nazism and its consequences for politics, society, and culture in Europe. The period's history will be examined from the perspective of perpetrators, victims, and bystanders with emphasis on the Holocaust and its legacy.

**Credit Hours:** 3 hour lecture

**Prerequisites:** Hist 112

EC 1899, Computer Science 301, Evolutionary Computing, approved effective Fall 2007.

**Course Description:** Introduces evolutionary algorithms, a class of stochastic, population-based algorithms inspired by natural evolution theory (e.g., genetic algorithms), capable of solving complex problems for which other techniques fail. Students will implement course concepts, tackling science, engineering and/or business problems.

**Credit Hours:** 3 hour lecture

**Prerequisites:** Cmp Sc 253 and a statistics course



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EC 1900, Geological Engineering 301, Introduction to International Engineering & Design Laboratory, approved effective Fall 2007.

Course Description: The laboratory course will focus on the construction and validation of a pilot scale system according to a work plan. Students will collect and analyze data to evaluate system performance.

Credit Hours: 1 hour lab

Prerequisites: Senior standing, Instructor approval, accompanied by Introduction to International Engineering & Design

EC 1901, Geological Engineering 301, Introduction to International Engineering & Design, approved effective Fall 2007.

Course Description: A multi-disciplinary engineering design course focused on sustainable design and technology transfer to developing countries. Students will develop a work plan to address design objectives and other considerations including scheduling, budgeting, environmental impacts, and life cycle design.

Credit Hours: 2 hour lecture

Prerequisites: Senior standing, Instructor approval, accompanied by Introduction to International Engineering and Design Laboratory

EC 1904, Systems Engineering 401, System Optimization, approved effective Fall 2007.

Course Description: This course explores the theory and practice of modern system optimization with an emphasis on nonlinear programming and algorithm development.

Credit Hours: 3 hour lecture

Prerequisites: Math 204 or 209

EC 1905, Chemical Engineering 301, Hazardous Materials Management, approved effective Fall 2007.

Course Description: Major themes: hazard identification and characterization; safety, health and environmental management; and the protection of safety, health and environment. Students will have an understanding of work place and environmental hazards in order to be able to facilitate their management and control. The course will include an intensive 30 hour hands-on workshop dealing with hazardous materials.

Credit Hours: Lecture: 2 Lab: 1 Total: 3

Prerequisites: Ch Eng 235 or Senior Standing

EC 1907, Psychology 301, The Social Psychology of Health, approved effective Fall 2007.

Course Description: This course examines Health Psychology. Topics will include basic behavioral pharmacology (involving alcohol & other drugs), illusions of invulnerability to risk, stress and coping, and the science of persuading people to



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protect their health. Students will learn how to construct a public service announcement towards a societal problem as part of the course.

Credit Hours: 3 hour lecture

Prerequisites: Psych 50

EC 1911, Engineering 201, IDE 201, SDELC Communication, approved effective Fall 2007.

Communication skills, both technical and promotional, will be covered. Students will practice both communication skills in written, oral, and media-based modes. Specific activities will include writing a proposal of funding, developing a promotional media piece and speaking to external groups about a SDELC team. Assessment will be made on each of the deliverables listed.

Credit Hours: Lecture: 0.5 Lab: 0.5 Total: 1

Prerequisites: IDE/Engr 201 Design and IDE/Engr 201 Leadership

EC 1912, Engineering 201, IDE 201, SDELC Design, approved effective Fall 2007.

Course Description: Students will participate in a significant design activity as part of one of the SDELC design team projects. Design activity will be reported and assessed at the end of the semester through a design report and oral presentation.

Credit Hours: 1 hour lab

Prerequisites: Sophomore standing and membership in a SDELC design team

EC 1913, Engineering 201, IDE 201, SDELC Leadership, approved effective Fall 2007.

Course Description: Students will participate in open lecture on team based management and leadership as it pertains to on going project activities. Project activity reports will be generated using real project data and assessed at the end of the semester through a project master plan and oral presentation.

Credit Hours: Lecture: 0.5 Lab: 0.5 Total: 1

---

J. Keith Nisbett, Chair  
UMR Campus Curricula Committee

**Wilson, Dedie**

2/17/2007 FS Minutes

**From:** Frank Blum [fblum@mst.edu]**Sent:** Saturday, July 12, 2008 12:08 PM

Public Occasions

**To:** Abdel Salam, Mohamed G.; Acar, Levent; Balakrishnan, S. N.; Bollmann, Trevor Alan (S&T-Student); Book, Neil L.; Bramel, Linda G.; Careaga, Andrew P.; Carney III, John F.; Cruise, Barb; DeMalade, William L.; Dempsey, Alex M (S&T-Student); Dew, Christopher W.; Drain, David; Drowne, Kate; Dubois, Robert D.; DuBroff, Richard E.; Eggert, Connie; Fahrenholtz, William G.; Fitch, Mark W.; Fitch, Stephanie L.; Fogg, Shannon; Frazier, Kimberly; Ge, Yu-Ning (Louis); Gillman, Amy M.; Goff, Jay; Goodridge, Connie H.; Groenke, Beth Renee (S&T-Student); Hale, Barbara N.; Hall, Richard H.; Haynes, W(illiam) Lance; Holloway, Patrick Neal (S&T-Student); Huang, Yue-wern; Isaac, Kakkattukuzhy M.; Kalicak, Andrew F (S&T-Student); Luechtefeld, Ray; Luna, Ronaldo; Malott, Steve; Martin, James H.; McCoy, Kelly L (S&T-Student); Mueller, Gary Edward; Mullin, Mark E.; Nisbett, J. Keith; Palmer, Barbara J.; Robinson, Debra A. G.; Roe, Robert Paul; Singh, Raj Kanwar (S&T-Student); Smith, Jeffrey D.; Stewart, Andy; Stoll, Laura K.; Stoltz, Mary Helen; Uri, Nancy K.; Weigert, Thomas; Wilkerson, Ralph W.; Woelk, Klaus; Woodin, Cynthia D.; Woronick, Stanley; Worsey, Paul Nicholas; Wray, Warren K.; Wunsch, Donald C.; Blum, Frank D.; Carroll, Douglas R.; Kosbar, Kurt Louis; Park, Eun Soo; Schulz, Michael

**Cc:** Stoll, Laura K.; Wilson, Dedie**Subject:** Change in Academic Calendars

Fellow Senators:

A mistake in the Academic Calendars approved by the Faculty Senate was found for the Mid-Semester date for 2009 and 2010 Spring Semesters.

		<u>Currently approved</u>	<u>Correct date</u>
Spring Semester 2009	Mid-Semester	March 14, Saturday	March 7, Saturday
Spring Semester 2010	Mid-Semester	March 13, Saturday	March 6, Saturday

The Officers and Chair of the Public Occasions Committee considered this change to be like a typographical change. Consequently, I have told the Registrar to make these changes in the official Calendar so that the book printed next week will be accurate.

I believe that this action will meet with your approval. If there are any serious considerations with respect to this change that need to be considered, please let me know.

Regards  
Frank Blum,  
FS President

--

NOTE - New e-mail address fblum@mst.edu

=====+++++++=====+++++++=====

Frank D. Blum, Department of Chemistry, Missouri U. of Science and Technology, Rolla, MO, USA  
65409-0010, 573-341-4451 E-mail: fblum@umr.edu http://www.mst.edu/~fblum

Our spam filter is on steroids, so if you expect a reply and don't get one, try alternative communication.  
**Effective January 1, 2008, UMR became Missouri University of Science and Technology (Missouri S&T)**

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9/10/2008

**Volume XXXVII, Number 4**  
**Minutes of the Academic Council Meeting**  
**January 18, 2007**

**I. Call to Order, Roll, and Approval of Minutes**

The meeting was called to order at 13:30 by President Kurt Kosbar and roll was taken. The following absentees were noted: Stanley Woronick, Joseph Herdade, Yue-wen Hong, Maggie Cheng, Gary Gadbury, Mark Mullin, Mohamed Abdelsalam, Paul Worsey, Gary Mueller, Neil Book, Mark Fitch, Hal Nystrom, H. L. Tsai, Richard Hall, John F. Carney, and Mariesa Crow. The following substitutions were noted: Dick Miller for Lance Haynes, Roger LaBoube for D.J. Belarbi, and James Murphy for Debra Robinson.

The meeting minutes of November 9, 2006 were **approved** as submitted.

**II. Campus Reports and Responses**

**A. President Report – Kurt Kosbar**

**a. Campus Reorganization Committees**

- Final reports were submitted to Chancellor and his comments are anticipated in a few weeks.
- Academic Council may need to staff search committees for new Vice Provost positions. Academic Council is accepting nominations.

b. Ad hoc Bylaws Revision Committee (Doug Carroll, Chair) is working on a draft Student Academic Regulations, Undergraduate and Graduate Student Handbooks.

c. Tenure Committee (Bruce McMillin, Chair) is actively discussing the P&T policy revision and will hold an open Forum on February 6, 2007.

**d. Other ad hoc committees**

- RP&A is staffing a committee to look at the manner in which the university handles intellectual property rights and is looking for nominations.
- RP&A is working with the Provost to set up a Strategic Planning Committee. Four initial AC nominees (Myers, Haynes, Carroll, and Smith) may need to be trimmed to three.
- Bob Schwartz is planning to step down from the Higher Learning Commission Self Study Committee.

**e. Interaction with Student Council**

- RP&A and AC officers are working with Student Council to set up direct Student Council President to faculty mailing list.
- Discussing ways to get information to students on when courses will be offered in future semesters.

- f. IFC reports – Details are at <http://campus.umn.edu/acadcoun/reports/President/pre.01.18/07.ppt>
- Three subcommittees were formed (Assessment and Accountability, Bob Schwartz representing UMR; Personnel, Frank Blum; Administrative, Kurt Kosbar)
  - Power system stability at UMR was discussed.
  - E-Procurement : Pilot program coming in September 2007
  - Family and Medical Leave Act changes were discussed.
  - Course Development / Life Cycle – looking at removing courses after they have not been taught for 5-10 years

## **B. Administrative Report – W. Kent Wray**

- a. Spring Enrollment figures were presented. As of the end of the first week the total enrollment increased by 6.2% compared to the same time last year. Details can be found at <http://campus.umn.edu/acadcoun/reports/provost/prov.1.18.07.ppt>
- b. Restructuring update
- Chancellor will announce his decisions at an open forum on February 1, 2007.
  - Search committees being formed for the two Vice Provost's positions recommended by the planning committees. The two new positions are Vice Provost for Graduate Studies and Vice Provost for Academic Affairs.
  - Vice Provosts will play principal role in writing job descriptions and choosing the personnel for the other recommended positions.
  - Training workshops for dept. chairs and dept. secretaries will be conducted later this semester.
- c. MOHELA funding is uncertain and a decision is not likely for next 30-90 days. Need to elevate the priority of the Toomey Hall project with our local and state elected officials.
- d. UMR Strategic Plan will be finalized by the end of the semester and strategic and tactical plans will be implemented.
- e. Capital Campaign – As of December 31, 2006, over \$102 million dollars were raised. Public phase campaign will be announced in April 2007.
- f. Plan for the University Research Park is underway. Preliminary design ideas can be found at <http://campus.umn.edu/acadcoun/reports/provost/prov.1.18.07.ppt>

## **C. Staff Council Report – Kim Frazier**

The Staff Day will be held on May 30, 2007.

#### **D. Student Council – Beth Groenke**

- a. At the December Board of Curators meeting, Curator Carnahan showed his interest in Student Council's Executive Committee tracking system, EBoard Central, requesting more information for the Board of Curators. Stu. Co. hopes to give a presentation to the Board of Curators in the April meeting at UMR.
- b. Survey Updates
  - Commencement Survey – 558 Students took the survey. Two alternatives were very close for the first choice of many students. Twenty-six percent of students wished to hold the ceremony at the Allgood-Bailey Football Stadium, while 24% wished to divide the ceremony into smaller groups. Utilizing the Allgood-Bailey Football Stadium was the most popular response for this choice at 25%. Finally, for the third choice of ceremony type, using the Allgood Bailey Football Stadium (17%) or having the ceremony on campus somewhere outside (15%) were the most favored responses.
  - The Student Interest Survey is still open. It asks students a variety of questions pertaining to different items Student Council is working on, and helps get us the statistics we present to you when we bring up student issues. So far we have 720 responses.
  - The UMR Name Change Student Survey will be out on Monday and will run through January 29, 2007.
- c. MinerNET – MinerNET is the indoor replacement for SAVID. Student Council is currently working on the project with IT and others. The template is ready, and MinerNET will hopefully premier at the February Chancellor's Council. The committee hopes that the whole project will be up and running by early March.
- d. Joe Miner TV – UMR television station. So far 1 pilot has been created and the team is working with Dean Goff and the individuals with the Distance Learning Center and the Communication Center to develop the rest of the pilot shows. They are also hoping to work with Dr. Wiebe.

#### **E. Council of Graduate Students – Adam Sibley**

Council of Graduate Students is planning the Graduate Student Research Showcase later this semester.

### **III. Reports of Standing and Special Committees**

#### **A. Curricula – Keith Nisbett**

- a. Approval of submitted forms was posted on the web. Motion was **voted** and **passed** by acclamation.

#### **B. Academic Freedom and Standards**

AF&S committee proposes some changes to the Student Academic Regulations. It was tabled until the next meeting.

#### **C. Student Affairs – Jeff Smith**

- BBQ Club constitution was **approved**.
- The following motion was **voted** and **passed** by acclamation: the Student Affairs Committee no longer is involved in the approval of student organization constitutions. Recognizing the critical role that students, faculty and the administration play in this process, we further recommend that a separate Chancellor appointed committee of students; faculty and administration assume the student organization constitution review process.

#### **IV. Old Business**

##### **A. Report on Current Referrals and Actionable Items**

Kurt Kosbar reported the status of current referrals and actionable items. Details are at <http://campus.umn.edu/acadcoun/reports/President/pre.01.18/07.pdf>

#### **V. New Business and Announcements**

##### **A. New Referrals**

None

##### **B. Announcements**

President Kosbar welcomes possible topics for the Board of Curators Meeting in April 2007 at UMR campus.

The meeting was adjourned at 14:30.

Respectfully Submitted,

Eun Soo Park  
Secretary, Academic Council



## **ACADEMIC COUNCIL (AC) PRESIDENT'S REPORT FOR JANUARY 18, 2007 AC MEETING**

**Campus Reorganization** Numerous committees are working on reorganizing the campus to eliminate the college/school structure. The Ad-Hoc committees on Financial Activities, Personnel, External Functions, and Administration are in the very final stages of their deliberations. Previous AC President's reports documented the AC participation on these committees.

Work related to the reorganization is continuing on the following faculty standing and ad-hoc committees:

- Ad-Hoc Bylaw and Student Academic Regulation Revision Committee (Doug Carroll, Chair)
- Tenure Committee (Bruce McMillin, Chair)
- Academic Freedom and Standards Committee (Lance Haynes, Chair)
- Rules, Procedure and Agenda Committee (Bob Schwartz, Chair)

**Tenure Committee** The faculty standing committee on Tenure is developing a proposal for how the campus Promotion and Tenure Policies could be altered, to accommodate the elimination of the college/school structures. As with all faculty standing committees, the Tenure committee reports to, and through, the Academic Council – which will ultimately vote on what changes to make in this area.

The Tenure committee will most likely schedule an open forum in the near future. For additional details on the Tenure committee activities, please contact their chair, Dr. Bruce McMillin.

**Ad-Hoc Bylaw and Student Academic Regulation Revision Committee** The Rules, Procedure and Agenda (RP&A) committee has requested this Ad-Hoc committee suggest changes to the UMR Bylaws, Student Academic Regulations and catalogs.

The bylaw revisions have been divided into two phases, with the first phase eliminating the dependence on, and reference to, academic deans, schools and colleges. The RP&A committee has suggested that, where possible, the responsibilities now in the Dean's office should be moved to the department level. The goal is to complete this phase in time for implementation during the 2007-08 academic year.

The committee plans to seek approval from the Academic Council, and the UM System General Council, before submitting the proposal to the UMR General Faculty (most likely at its Spring 2007 regular meeting). A mail ballot will be distributed to all members of the General Faculty following the general faculty meeting where it is discussed. Any changes will need to be approved by a simple majority of the General Faculty who choose to vote.

The proposed changes to the UMR Student Academic Regulations will be submitted to the AC, for its consideration and approval.

If time permits, and the committee is so inclined, it may consider proposing more fundamental structural changes to the General Faculty, Academic Council, and Faculty Standing committee structures.

For more information, please contact the committee's chair, Dr. Doug Carroll.

**Ad-Hoc Committee in Intellectual Property** The RP&A Committee is staffing an ad-hoc committee to look at the manner in which the university handles intellectual property, especially as it impacts faculty.

**Strategic Planning Committee** The RP&A Committee is working with the Provost to establish a committee to address refining, maintaining and implementing the UMR strategic planning document distributed in draft form last academic year.

## REFERRALS

All open, and recently closed, referrals to AC committees are listed below, along with a summary of their status. Additional information on these referrals is available from the AC President, or the Chair of the appropriate committee.

<b>Referral</b>	<b>Committee</b>	<b>Status</b>
Revision of Student Academic Regulations, regarding instructor drops for poor performance	AC Passed Motion, 10/12/06	Fully Implemented. Changes are in Student Academic Regulations, Registrar Notified faculty of change, and is enforcing new rules in Spring Semester 2007.
Review of pre-requisite policy and practices	Academic Freedom and Standards	Proposal from AF&S Committee expected soon.
Faculty/Staff headcounts and demographics	Budgetary Affairs	Under review by committee
Review of procedures associated with graduate and undergraduate certificate programs	Curricula	Under review by committee
Use of end-of-semester evaluations	Personnel	Under review by committee
Consensual amorous relationship policy	Personnel	Policy approved by Board of Curators in December, 2006.
Approval of student organization constitutions	Student Affairs	Under review by committee, anticipate report soon.
Mid semester student evaluations	Academic Freedom and Standards, and Personnel	Under review by committees and others.
Modification of bylaws, to accommodate elimination of colleges and schools	Ad-Hoc Bylaw Revision Committee	Under review by committee
Modification of student academic regulations to accommodate elimination of colleges and schools	Ad-Hoc Bylaw Revision Committee	Under review by committee
Modification of Promotion and Tenure regulations to accommodate elimination of colleges and schools	Tenure	Under review by committee, anticipate open forum soon.
Modification of bylaws, to restructure faculty governance structure	Ad-Hoc Bylaws Revision Committee	Tabled, pending completion of tasks which accommodate elimination of colleges/schools

## INTERCAMPUS FACULTY COUNCIL (IFC) REPORT

The following report is a summary of activities at the November 11, 2006, and December 8, 2006 IFC meetings. The next IFC meeting is scheduled for January 19, 2006. More information on the IFC, and UMR's representatives, appears at the end of this report.

Three subcommittees were formed to look at the topics listed below:

**Committee 1** Assessment and Accountability. UMR representative: Bob Schwartz. This committee continues to discuss the manner in which we measure our effectiveness as an institution, and may address how this relates to matters which are currently generating attention at the national level (see: <http://www.ed.gov/about/bdscomm/list/hiedfuture/reports.html>). There was some emphasis placed on clarifying the explanation of our assessment instruments.

**Committee 2** Personnel Issues. UMR representative: Frank Blum. This committee will discuss a number of issues, including proposed policies on:

- *Consensual Amorous relationships* – Anticipate the Board of Curators acting on this in the December meeting (which they did).
- *Faculty Leave Policy*. There is currently some confusion, and inconsistency, in the way faculty leaves and sabbaticals are handled.
- *Background Checks*. There have been suggestions that the UM system should perform some sort of criminal background check of new faculty hires.
- *Pausing, and extending, tenure clocks*. There have been proposals that all UM system campuses should allow a faculty member to request that the tenure clock be paused, or extended, for certain events – such as family leave.

**Committee 3** Administrative Policy. UMR representative: Kurt Kosbar. This committee will review the procedures used at the university to insure compliance with the Office of Management and Budget Circular A-21 ([http://www.whitehouse.gov/omb/circulars/a021/a21\\_2004.html](http://www.whitehouse.gov/omb/circulars/a021/a21_2004.html)), which “describes principles for determining costs applicable to grants...” The UM system has had some serious problems in the past in this area.

**Power System Stability** At the November IFC meeting, UMR IFC representatives raised concerns about the stability of the electrical power distribution system at UMR. This included questions if the repeated power outages could be a sign that insufficient funds are being allocated to preventative maintenance. Concerns were also raised about forcing employees to work in buildings that lack electrical power (or else take vacation time). At the December meeting, system administrators reported that the electrical problems were caused by a highly unlikely series of events which could not have been reasonably foreseen. It was also reported that changes were made to policy, to allow campus administrators to send employees home when conditions were unsafe.

**E-Procurement** The UM system is implementing an e-procurement system, which will provide a “shopping” complement to people-soft. This will not eliminate the use of Pro-Cards. There will be a custom web site set up, which lists the products from many vendors. It will not be necessary to reconcile statements, if material is purchased through this web site. Employees will not be forced to use e-procurement, but “may receive a visit” if they choose to routinely avoid it. A pilot web site should be up by September 2007.

**Family and Medical Leave.** A UMR committee is examining the current Family and Medical Leave policy, and suggesting revisions which would include paid leave for faculty, extension of the tenure clock, and allowing faculty to qualify for leave immediately upon employment.

**Course Development / Life Cycle.** Some are concerned that we may have a number of courses listed in our catalog, which we have not recently taught. There are suggestions that we implement a policy where courses are purged from the catalog after they have gone many years without being taught. One proposal involves moving courses to an inactive list after 5 years, and completely deleted after they are not offered for 10 consecutive years.

**Non Tenure-Track (NTT) Faculty** The final NTT faculty document is available on the web at:

<http://www.umsystem.edu/ums/departments/aa/faculty/nontenure.shtml>

**Background on IFC** The IFC is 12 member committee, which three representatives from each of the four campuses: UMC, UMR, UMSL , and UMKC. The three members from UMR are elected annually by the UMR Academic Council, and are traditionally the Past President, President, and President-Elect of the Academic Council. The IFC meets monthly, in Columbia, during the academic year. These meetings typically involved a session where the 12 representatives discuss matters between themselves, and are then joined by a variety senior UM System Staff. The meetings typically conclude with a discussion with the UM System President, and the President's staff.

Minutes of past IFC meetings, and other IFC information is available on the web at:

<http://www.umsystem.edu/ums/departments/aa/faculty/council.shtml>

The IFC was created by executive guideline 11, which is documented in the UM System Collected Rules and Regulations, section 20.100. This is available on the web at:

<http://www.umsystem.edu/ums/departments/gc/rules/administration/20/100.shtml>

Faculty who wish to learn more about IFC business, or suggest topics for discussion at IFC are encouraged to contact any/all of the UMR representatives. For the 2006-07 academic year, the UMR IFC representatives are: Dr. Bob Schwartz, Dr. Kurt Kosbar and Dr. Frank Blum (who have jointly prepared this report). Their contact information is given below:

Robert Schwartz, Academic Council Past-President  
222 McNutt Hall  
Phone: 341-6025  
[rwschwar@umr.edu](mailto:rwschwar@umr.edu)

Kurt Kosbar, Academic Council President  
227 Emerson Electric Company Hall  
Phone: 341-4894  
[kosbar@umr.edu](mailto:kosbar@umr.edu)

Frank Blum, Academic Council President-Elect  
138 Schrenk Hall  
Phone: 341-4451  
[fblum@umr.edu](mailto:fblum@umr.edu)

Respectively Submitted,

January 11, 2007

Dr. Kurt Kosbar  
Academic Council President



**UMR**

# **ACADEMIC COUNCIL REPORT**

**WARREN K. WRAY  
PROVOST AND  
EXECUTIVE VICE CHANCELLOR  
FOR ACADEMIC AFFAIRS**

**January 18, 2007**



**UNIVERSITY OF  
MISSOURI-ROLLA**

**UMR**

# **ENROLLMENT MANAGEMENT**

**UNIVERSITY OF  
MISSOURI-ROLLA**



## UMR - Enrollment Management Services WEEKLY ENROLLMENT REPORT

			Fall 2002	Fall 2003	Fall 2004	Fall 2005	Fall 2006	Fall 2007
			(PS)	(PS)	(PS)	(PS)	(PS)	(PS)
			12/21/2001	12/21/2002	12/21/2003	12/21/2004	12/21/2005	12/21/2006
<b>FRESHMEN</b>	<b>Inquiries</b>	Beg. Fr. Inquiries	12102	10131	8810	9588	9819	10056
		HS Jr. Inquiries	4848	2605	2509	3222	3495	3313
	<b>Applications</b>		1399	1383	1486	1536	1676	1965
		Pending	161	154	128	161	189	294
		Withdrawn Apps	1	6	0	0	2	1
	<b>Admitted</b>		1219	1223	1350	1366	1444	1642
		Cancelled Admits	2	3	3	1	0	1
		Denied	18	0	8	9	41	28
	<b>Enrolled</b>		0	0	0	0	0	0
<b>TRANSFERS</b>	<b>Inquiries</b>		362	404	636	486	733	641
	<b>Applications</b>		108	88	99	105	111	106
		Pending	47	45	50	67	70	53
		Withdrawn Apps	0	0	0	0	0	2
	<b>Admitted</b>		61	43	48	37	40	51
		Cancelled Admits	0	0	0	0	0	1
		Denied	0	0	1	1	1	0
	<b>Enrolled</b>		0	0	0	0	0	0
<b>GRADUATES</b>	<b>Inquiries</b>		1507	1155	494	481	762	707
	<b>Applications</b>		1142	983	426	349	534	546
		Pending	897	773	333	255	438	464
		Withdrawn Apps	2	0	1	0	2	0
	<b>Admitted</b>		189	179	73	82	65	60
		Cancelled Admits	0	0	0	0	0	0
		Denied	54	31	19	12	29	22
	<b>Enrolled</b>		0	0	0	0	0	0
<b>ORIENTATION</b>	<b>Freshmen</b>	Total Reservations	0	0	151	165	212	*231
	<b>Transfer</b>	Total Reservations	0	0	33	0	5	*3
<b>HOUSING AGREEMENTS</b>		Returning	0	0	0	0	0	0
		Beginning Freshmen	0	0	170	204	298	220
		New Transfers	0	0	0	0	n/a	1
		Waivers	0	0	0	0	0	0
		Greek Housing	0	0	0	0	0	0
		<b>TOTAL</b>	0	0	170	204	298	221
<b>4TH WEEK CENSUS</b>		Beginning Freshmen	815	897	877	914	977	
		New Transfers	261	281	288	312	266	
		Graduates	423	348	402	355	392	
		<b>TOTAL</b>	1,499	1,526	1,567	1,581	1,635	

PS - data from PeopleSoft system  
 Unofficial Internal Planning Data - not intended for public release.  
 \*12-15-06 Data

# ADMISSIONS VISITOR NUMBERS

Open House Students

Students	03-04	04-05	05-06	06-07
JULY				
AUGUST				
SEPTEMBER				98
OCTOBER	56	84	127	
NOVEMBER	90	122	168	151
DECEMBER				
JANUARY				
FEBRUARY	73	131	101	
MARCH		168		
APRIL	92		118	
MAY				
JUNE				
Totals	311	505	514	

Open House Students & Guests

Guest	03-04	04-05	05-06	06-07
JULY				
AUGUST				
SEPTEMBER				253
OCTOBER	146	207	256	
NOVEMBER	206	298	359	349
DECEMBER				
JANUARY				
FEBRUARY	193	320	253	
MARCH		405		
APRIL	236		374	
MAY				
JUNE				
Totals	781	1230	1242	

Group Visits

#Students	03-04		04-05		05-06		06-07	
JULY		0	2	77	1	100	1	5
AUGUST	1	25		0	0	0	0	0
SEPTEMBER	1	20	3	25	1	30	0	0
OCTOBER	2	21	2	45	1	10	1	48
NOVEMBER	3	80	2	43	3	68	5	117
DECEMBER	2	28	3	60	0	0	1	22
JANUARY		0		0	0	0		
FEBRUARY		0	1	30	2	37		
MARCH	3	65	4	252	7	299		
APRIL	5	153	3	147	3	116		
MAY	2	30	1	25	1	50		
JUNE	2	70	1	45	2	115		
Totals	21	492	20	749		825		

Miner Day Monthly Totals

Students	03-04	04-05	05-06	06-07
JULY	36	20	26	
AUGUST	15	19	28	
SEPTEMBER	9	0	0	
OCTOBER	56	60	56	117
NOVEMBER	30	25	0	83
DECEMBER	0	0	0	
JANUARY	4	0	0	
FEBRUARY	9	0	42	
MARCH	67	55	63	
APRIL	22	30	28	
MAY	0		10	
JUNE	0			
Totals	248	209	253	

Campus Visits

Students	03-04	04-05	05-06	06-07
JULY	96	132	118	133
AUGUST	59	92	99	95
SEPTEMBER	43	42	52	55
OCTOBER	116	91	105	130
NOVEMBER	85	93	128	88
DECEMBER	62	62	41	51
JANUARY	51	53	83	
FEBRUARY	74	88	61	
MARCH	104	121	161	
APRIL	65	65	94	
MAY	29	53	58	
JUNE	63	48	67	
Totals	847	940	1067	

Miner Day totals by Date

Oct 9 2006	29
Oct 13 2006	16
Oct 20 2006	37
Oct 27 2006	35
Nov 10 2006	42
Nov 17 2006	41
Feb 12 2007	
Mar 9 2007	
Mar 12 2007	
Mar 19 2007	
Mar 23 2007	
April 20 2007	
July 27 2007	

Transfer Day totals  
by Date

Oct 27 2006	14
Mar 9 2007	
Mar 23 2007	
June 8 2007	

Advising Days by date

Oct 20 2006	16
Nov 10 2006	16
Jan 4 2007	
Mar 2 2007	
Apr 13 2007	
June 1 2007	
June 29 2007	
Aug 15 2007	

\* Oct OH in 2005 Includes the Gear Up Group (66 students, 4 guests)

## **Admissions - Special Events Spring and Summer 2007**

### 2007 Miner Days:

Monday, Feb 12  
Friday, March 9  
Monday, March 12  
Monday, March 19  
Friday, March 23  
Friday, April 20  
Friday, July 27

### Spring 2007 Open Houses:

Monday, February 19 (President's Day)  
April 6 (Good Friday)

### 2007 Transfer Days:

Friday, March 9  
Friday, March 23  
Friday, June 8

**UMR**

# **RESEARCH**

**UNIVERSITY OF  
MISSOURI-ROLLA**

- ◆ Proposal activities through December 2006
  - Proposals awarded: \$18.9M (down 0.7%)
  - Proposals submitted: \$58M (down 18.3%)
- ◆ Externally sponsored grant and contract expenditures through December 2006: \$17M

## FY 07: Proposals Awarded through December

	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Totals
Biol. Sci.	0	5,000	0	0	0	0							5,000
Chem.	612,910	12,667	120,000	78,400	18,562	0							842,539
Comp. Sci.	294,281	0	87,160	0	0	0							381,441
Engl. & Tech. Comm.	0	0	0	0	0	0							0
Hist./PS	0	0	0	0	0	0							0
Math/Stat	0	0	0	0	0	30,695							30,695
Phil.	0	0	0	0	0	0							0
Phys.	273,910	-20,668	98,432	20,668	7,556	0							379,899
Psych.	98,604	98,152	0	0	0	0							196,756
A&S Totals:	1,279,706	95,151	305,592	99,068	26,118	30,695	0	0	0	0	0	0	1,836,330
Materials Sci. & Eng.	265,000	580,476	385,513	294,984	1,360,961	464,176							3,351,111
Mining & Nuclear Eng.	840,818	172,965	144,713	330,583	52,077	14,189							1,555,344
Geol. Sci. & Eng.	10,000	172,642	130,000	30,000	11,789	161,914							516,345
SoMEER	1,115,818	926,083	660,226	655,567	1,424,827	640,279	0	0	0	0	0	0	5,422,801
Interdisciplinary Eng.	50,000	6,000	77,000	0	0	0							133,000
Chem. & Biol. Eng.	1,490	2,500	10,175	14,450	271,600	3,991							304,206
Civil, Arch. & Env. Eng.	54,470	416,115	272,080	457,038	38,593	2,000							1,240,296
Elec. & Comp. Eng.	15,000	316,937	1,424,846	372,170	486,390	106,985							2,722,329
Engr. Mgt. & Sys. Eng.	0	158,620	0	499,642	232,800	0							891,062
Mech. & Aero. Eng.	514,280	326,534	60,512	105,000	1,734,744	354,795							3,095,865
SOE Totals	635,240	1,226,707	1,844,613	1,448,300	2,764,127	467,771	0	0	0	0	0	0	8,386,758
Econ. & Finance	0	0	0	0	0	0							0
Business Admin.	98,604	861,940	0	0	60,000	0							1,020,544
Info Sci. & Tech.	116,400	0	0	0	0	0							116,400
Dean's Office	0	0	0	0	0	0							0
SMS	215,004	861,940	0	0	60,000	0	0	0	0	0	0	0	1,136,944
Enrollment Mgt	0	0	0	0	0	0							0
International Affairs	0	0	0	0	0	0							0
Minority Affairs	0	0	0	0	0	0							0
Other	0	10,000	0	620,166	0	11,338							641,504
RPDC	21,550	0	659,924	0	678,780	0							1,360,254
KUMR	0	0	0	0	64,978	20,191							85,169
Grand Totals:	3,267,318	3,119,881	3,470,355	2,823,101	5,018,830	1,170,274	0	0	0	0	0	0	18,869,760

-0.7% compared to FY 06

Total: \$18.9M

## FY 07: Proposals Submitted through December

	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Totals
Biol. Sci.	644,137	209,636	13,774	283,510	42,891	0							
Chem.	1,041,565	300,749	506,022	494,521	1,474,441	1,029,705							
Comp. Sci.	1,040,264	0	243,880	0	1,352,261	0							
Engl. & Tech. Comm.	0	0	0	0	0	0							
Hist./PS	0	0	0	0	0	0							
Math/Stat	0	0	51,294	194,855	6,600	30,695							
Phil.	0	0	0	0	131,126	0							
Phys.	40,000	0	1,016,960	580,526	811,386	130,320							
Psych.	98,604	98,152	0	0	63,336	0							
<b>A&amp;S Totals:</b>	<b>2,864,569</b>	<b>608,537</b>	<b>1,831,930</b>	<b>1,553,412</b>	<b>3,882,041</b>	<b>1,190,720</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11,931,209</b>
Materials Sci. & Eng.	699,707	2,050,548	214,718	466,553	7,320,522	1,237,712							
Mining & Nuclear Eng.	846,244	73,200	2,240	457,195	57,691	14,189							
Geol. Sci. & Eng.	0	300,260	0	211,207	163,666	411,937							
<b>SoMEER</b>	<b>1,545,951</b>	<b>2,424,007</b>	<b>216,958</b>	<b>1,134,955</b>	<b>7,541,879</b>	<b>1,663,838</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14,527,587</b>
Interdisciplinary Eng	0	93,724	61,029	462,090	462,230	325,573							
Chem & Biol. Eng.	1,053,594	736,242	358,703	0	400,312	252,268							
Civil, Arch. & Env. Eng.	45,000	1,050,445	381,019	805,405	950,935	2,755,468							
Elec. & Comp. Eng.	1,683,831	2,718,983	532,688	2,464,835	3,163,675	62,000							
Engr. Mgt. and Sys. Eng.	499,640	188,151	79,907	0	521,278	70,936							
Mech. & Aero. Eng.	1,287,543	878,306	323,027	921,775	2,530,063	451,143							
Dean's Office	0	0	0	0	0	0							0
<b>SOE Totals</b>	<b>4,569,608</b>	<b>5,665,851</b>	<b>1,736,371</b>	<b>4,654,105</b>	<b>8,028,493</b>	<b>3,917,388</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>28,571,816</b>
Econ. & Finance	0	0	0	0	0	37,551							
Business Admin.	98,604	861,940	0	0	0	0							
Info Sci. & Tech.	0	0	0	0	0	0							
Dean's Office	0	0	0	0	0	0							
<b>SMIS</b>	<b>98,604</b>	<b>861,940</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>37,551</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>998,095</b>
Enrollment Mgt.	0	0	0	0	0	0							0
International Affairs	0	0	0	0	0	0							0
Grad/UG Studies	0	0	0	0	0	0							0
Other	0	10,000	0	505,604	1,338	0							516,942
RPDC	1,332,038	0	0	0	0	0							1,332,038
KUMR	0	0	0	0	129,955	20,191							150,146
<b>Grand Totals:</b>	<b>10,410,769</b>	<b>9,570,335</b>	<b>3,785,259</b>	<b>7,848,077</b>	<b>19,583,706</b>	<b>6,829,688</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>58,027,833</b>

-18.3% compared to FY 06

**Total: \$58.0M**

UNIVERSITY OF  
MISSOURI-ROLLA



**UMR**

# **UNDERGRADUATE AND GRADUATE STUDIES**



**UNIVERSITY OF  
MISSOURI-ROLLA**



### **Academic Advising Awards**

The Office of Undergraduate & Graduate Studies is currently accepting nominations for the **2006/07 Outstanding Academic Advising Awards**.

Seven annual advising awards are presented to a faculty member from each school/college, a staff advisor a freshman advisor and a transfer student advisor. Each award recipient will receive \$500.00, an awards plaque, and mention on the *College/School Outstanding Academic Advisor Awards Plaque*. Awards will be announced during a campus-wide reception on April 25, 2007 in the Havener Center.

**Eligibility:** Any faculty or staff member who serves as an academic advisor to UMR students is eligible to receive this award. Upper level administrators, including department chairs and directors, are not eligible for this award. Advisors are not eligible to receive the award in two consecutive years

**Nominations/Deadline:** All UMR students, faculty and staff are welcome to submit award nominations. Nomination packets must include the nomination form and a supporting statement, and may include up to three letters of support. Nomination packets (including the nomination form, supporting statement and up to three letters of support) are due by 4:30 PM on **February 28, 2007**. Submit nomination packets to the Selection Committee Chair, c/o the Office of Undergraduate & Graduate Studies, 209 Norwood Hall.

Nomination forms are available on line at <http://www.umn.edu/ugs/advisorrecognition.htm>. If you have questions, please contact Amy Gillman at 341-7600/ [gillman@umn.edu](mailto:gillman@umn.edu) .

### **Academic Advising Conference**

Please join us for an open discussion on the role of faculty advisors at UMR. The UMR Academic Advising Conference Series presents: "What is an "Academic Advisor?" Wednesday, **January 10, 2007** from 10:30 AM-12:00 PM in the Carver-Turner Room of the Havener Center. Open to all UMR faculty. *A light brunch will be provided.*

### **Academic Alert System**

The Office of Undergraduate and Graduate Studies would like to remind all faculty to utilize the Academic Alert System this semester.

The Academic Alert System is an on-line version of the former Early Warning System. The Academic Alert System helps students become aware of their academic status in the courses they are taking. The system includes a customized reporting feature for use by faculty and department chairs.

On-line access is available at: <http://campus.umn.edu/acalert>

## **Achieving Academic Excellence-Student Success Workshop Series**

The Office of Undergraduate & Graduate Studies is sponsoring a series of workshops for UMR students who are on probation or academically deficient. Achieving Academic Excellence, begins January 22, and meets weekly through May 8th. Participating faculty and staff include: F. Scott Miller, Jeff Cawlfeld, Ralph Flori, Larry Gragg, Diana Ahmad, Stephanie Fitch, Harvest Collier, and Amy Gillman.

## **Opportunities for Undergraduate Research Experiences (OURE)**

Applications for 2007/08 OURE projects are due April 1, 2007. To download the application, visit our web site at: <http://www.umn.edu/ugs/OURE.htm>

## **Re-Accreditation Self Study**

UMR Re-accreditation Open Forum –  
Wednesday, January 10, 12-1 pm at the  
Havener Center

UMR Re-accreditation Evidence Collection  
Workshop A – Thursday, January 11, 12-2  
pm at the Havener Center

UMR Re-accreditation Evidence Collection  
Workshop B – Wednesday, January 17, 12-2  
pm at the Havener Center

### **Residential College Learning Communities**

With the opening of the new building in Fall 2007, UMR will offer two new Residential College Learning Communities:

**First-Year Learning Community: *Seeds of Success*, Dr. Ralph Flori, Instructor**

This learning community, aimed primarily at (but not limited to) first-year students, is designed to do the following:

Create and foster a living-learning-doing intellectual culture that will sow and nurture seeds of personal, intellectual, academic, social, and ethical success.

The course will introduce students to some classics of business, leadership and success literature, such as Stephen Covey's "The Seven Habits of Highly Effective People", and Jim Collins' "Good to Great."

Participating students will engage in short readings, discussion and debate on these texts and others, including ones that they select. Students will be encouraged to think deeply and reflectively about these texts, their meaning, and how they apply to one's life.

Students will be encouraged to create their own core values, ethical commitments, life goals, and philosophical underpinnings.

Discussions will occasionally focus on examples—good and bad—of business and political leaders in the news.

Students will be encouraged to use tools of success such as planners, calendars, journals, which promote organization and reflection.

**Music, Theater, & the Arts Learning Community, *Dr. Dick Miller, Instructor***

The UMR Music, Theater & the Arts Learning Community is an outstanding opportunity for any student who has a creative interest in visual or performing arts. Whether you are interested in continuing involvement from high school or you have little experience with the arts and are curious about local resources, participants will be able to explore art venues within the campus and surrounding community.

*In this community, you will have the opportunity to experience the arts through:*

Visiting local points of interest with a focus on theater, music and art

Meeting and interacting with campus and area artists

Exploring on-campus involvement opportunities

Discussing and critiquing movies, plays and other performances

## **Service Learning Symposium**

The Office of Undergraduate & Graduate Studies is hosting a Service Learning Symposium on Friday, January 12, 2007 at the UMR Havener Center.

The Keynote Speaker for this event is Dr. William Oakes, PE, Associate Professor of Engineering Education, Interim-Director of the Engineering Projects in Community Service (EPICS) Program, Purdue University

The Preliminary agenda is available on-line at:  
[http://www.umsr.edu/ugs/Service\\_Learning.html](http://www.umsr.edu/ugs/Service_Learning.html)

Registration is FREE and includes the luncheon. All UMR faculty, staff and students are welcome to attend. To register, contact the Office of Undergraduate & Graduate Studies at 573-341-7600 or email [gillman@umsr.edu](mailto:gillman@umsr.edu). Registration deadline is Tuesday, January 9, 2007

## **Undergraduate Research Conference**

The 3rd Annual UMR Undergraduate Research Conference will be held **April 11, 2007** at the UMR Havener Center. This event provides an opportunity for University of Missouri-Rolla undergraduates to showcase their research efforts to the campus community and to the public.

On-line registration is required in 2007. For more information, visit the web site at:  
<http://www.umar.edu/ugs/UGRC.html> .

The registration deadline is **MARCH 16, 2007**.





**UMR**

# **SCHOOL OF EXTENDED LEARNING**



**UNIVERSITY OF  
MISSOURI-ROLLA**

# **School of Extended Learning**

**Academic Council Announcement**

**January 2, 2007**

## **Distance & Continuing Education (DCE):**

- UMR's first Blended Learning opportunity is available for undergraduate students during the SP2007 semester. Dr. Doug Carroll will teach 3 sections of IDE 110: Mechanics of Materials. One section of resident UMR students will receive instruction face-to-face; another section of resident UMR students will receive instruction via distance education technology; the final section will consist of off-campus students using distance education technology. We want to discover if there are measurable differences in learning among these three groups as it could impact the manner in which coursework is delivered as well as personnel and facility needs.
- CArE and DCE departments received verbal approval of \$70,000+ proposal to deliver two Advanced Technical Seminars entitled "Slope Stability for Embankment Dams" for the Association of State Dam Safety Officials (ASDSO) in July and October, 2007 with intention of second award for additional two seminars in 2008.

# **School of Extended Learning**

## **New Graduate Certificates Approved:**

- Psychometrics – sponsored cooperatively by the departments of Psychology and Mathematics and Statistics.
- Composite Materials and Structures – sponsored by Mechanical and Aerospace Engineering
- Financial Engineering – sponsored by Engineering Management and Systems Engineering

# School of Extended Learning

## Engineering Education Center (EEC):

15 Classes will be taught by EEC faculty during SP2007 and streamed to UMR for resident student enrollment:

Civil Eng 301 – Bodapati	Eng Mgt 333 – Navarro
Civil Eng 373 – Trueblood	Eng Mgt 361 – Haley
Civil Eng 375 – Seaburg	Eng Mgt 441 – Shaller
Comp Sc 308 – Bond	IST 401 – Merz
Comp Sc 317 – Canis	Mech Eng/Aero Eng 334 – Birman
Comp Eng 316-416 – Hanna	Mech Eng 356 - Appelman
Elec Eng 407 - Landy	Mech Eng 357-Eng Mgt 354 - Lin
Eng Mgt 308 – Izuchukwu	

# School of Extended Learning

## EEC Continued:

Projected number of students served by EEC  
instructors increase as compared to previous  
Spring semester

	Spring 2006 (4 <sup>th</sup> week)	Spring 2007 (as of 1/2/07)
EEC Students	34	18
Distance Students	17	42
UMR Students	85	96
	-----	-----
Total	136	156

# School of Extended Learning

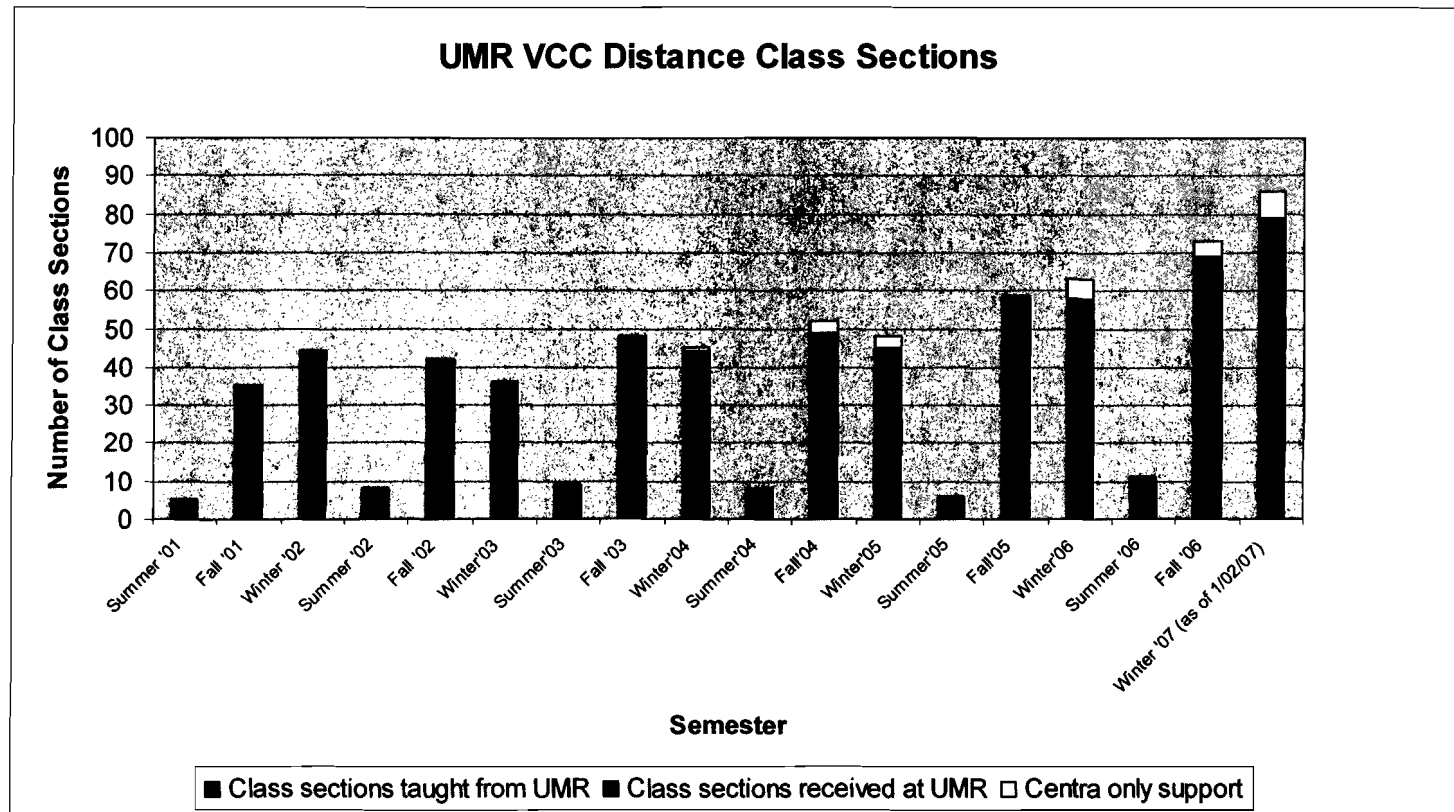
## International Affairs:

- New International Student Orientation scheduled for Tuesday, January 2, 2007. It is anticipated that SP2007 will see 40-50 new international students.
- Two International Linkage Agreements have been approved:
  - » Memorandum of Academic Cooperation with Harbin Institute of Technology, Harbin, China. Sponsored by Dr. Craig Adams, John & Susan Mathes Professor in Civil, Architectural and Environmental Engineering.
  - » Memorandum of Academic Cooperation with Chaoyang University of Technology, Taiwan, Republic of China. Sponsored by Dr. Wei-Wen Yu, Curator's Professor Emeritus in Civil, Architectural and Environmental Engineering.

# School of Extended Learning

## Video Communications Center (VCC):

Scheduled distance sections to be broadcast  
SP2007 continues to increase.



**UMR**

# **INFORMATION TECHNOLOGY**

**UNIVERSITY OF  
MISSOURI-ROLLA**



# Information Technology

## Applications/Enterprise Reporting

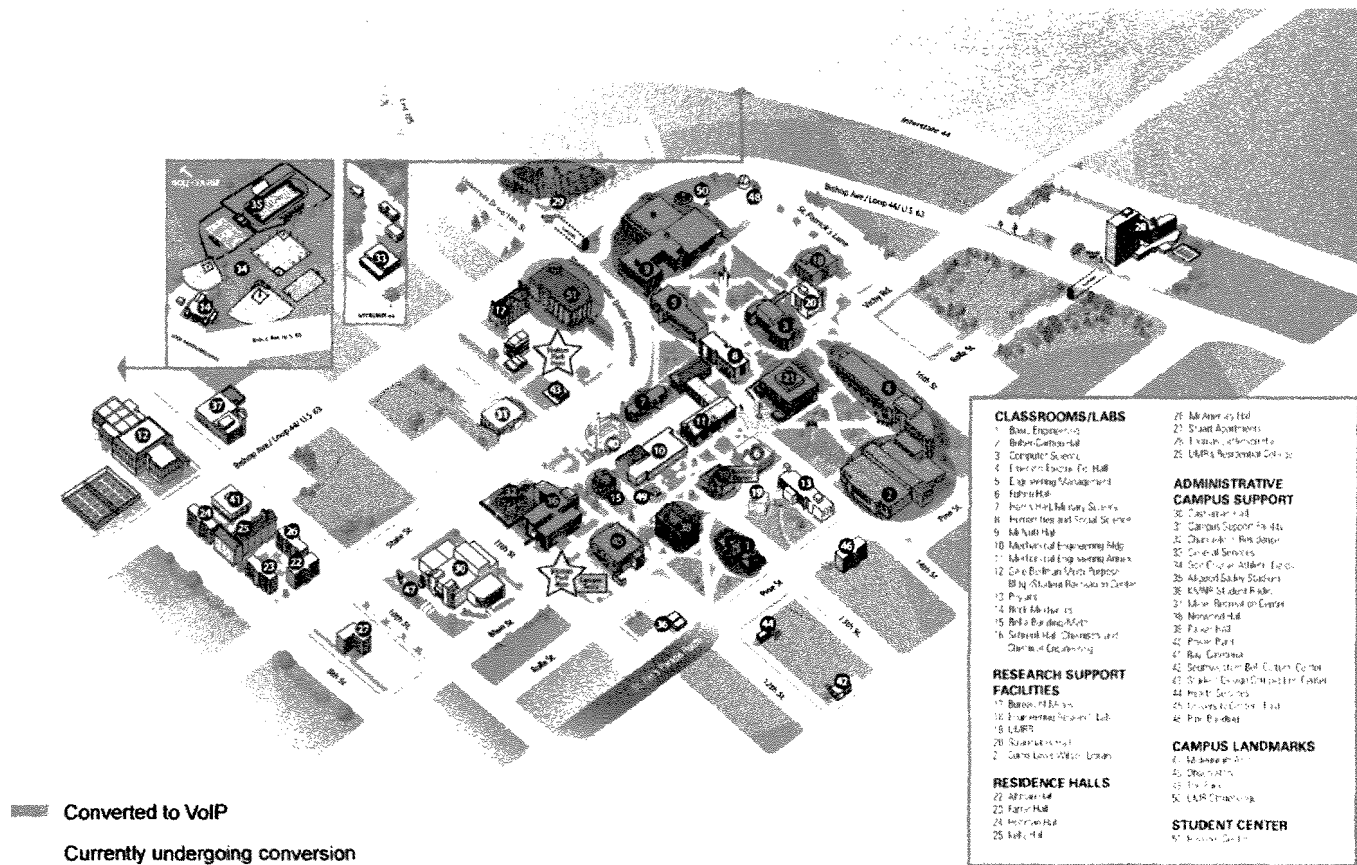
- Planning & design continues to progress for Research Repository
- Showcase & market UMR Research to internal and external research communities



# Information Technology

## Networks and Computing

- **Voice-Over IP Telephony Project**
  - Over 1,100 VoIP phones deployed



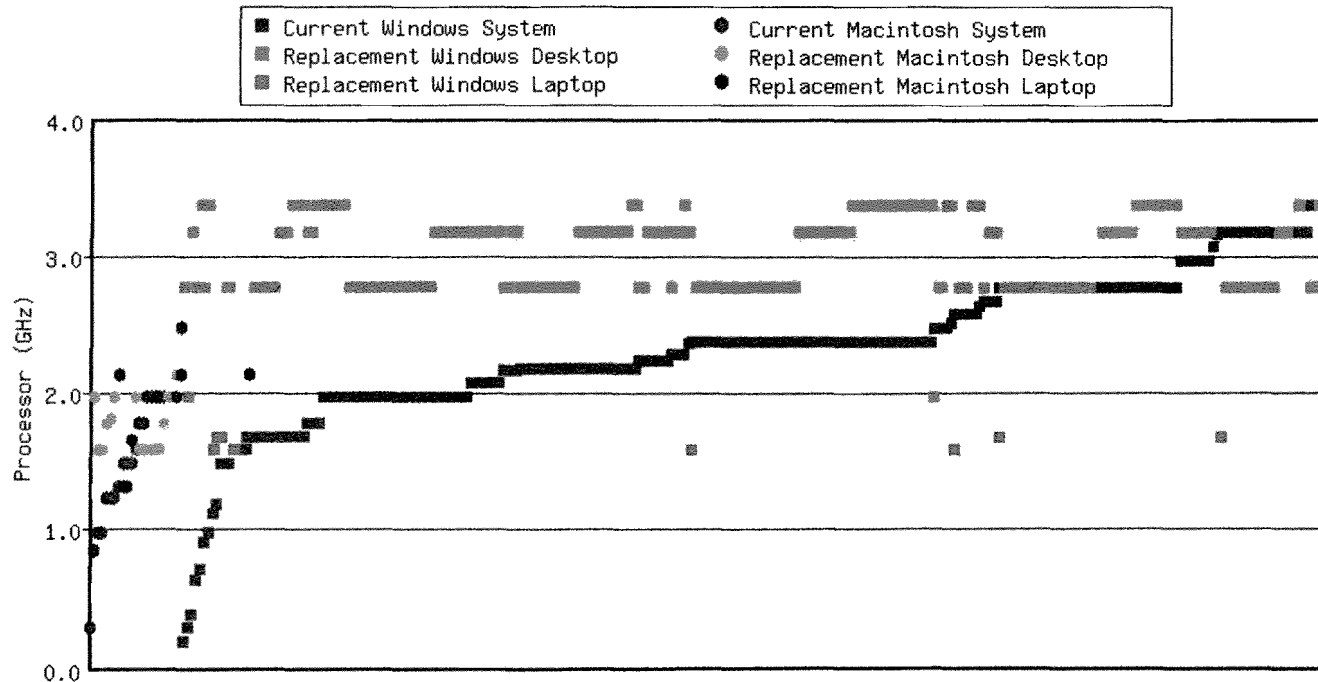
# Information Technology

## Solutions Center

### • Desktop Enhancement

- FY2006 cycle complete with 320 new computers deployed
- FY2007 in progress with 31 new computers deployed

FY07 Desktop Enhancement Program  
CAMPUS WIDE



# Information Technology

## Solutions Center

### • Technology Classrooms

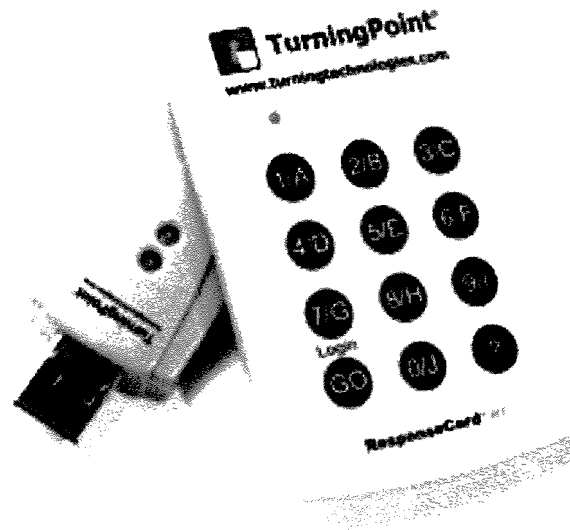
- 60% of centrally scheduled classrooms (53 out of 87) were outfitted with a standard technology package to support multimedia teaching needs during the Fall Semester 2006. The remaining 40% will be completed by the Fall Semester 2007.

Building Room #	Deployment Schedule	Status
⌘ Civil Engineering Building 120	Fall Semester 2006	Completed*
Civil Engineering Building 121	Fall Semester 2006	Completed
Civil Engineering Building 124	Fall Semester 2006	Completed
⌘ Civil Engineering Building 125	Fall Semester 2006	Completed
Civil Engineering Building 213	Fall Semester 2006	Completed
Civil Engineering Building 215	Fall Semester 2006	Completed
Civil Engineering Building 216	Fall Semester 2006	Completed
Civil Engineering Building 313	Fall Semester 2006	Completed
⌘ Civil Engineering Building 315	Fall Semester 2006	Completed
Civil Engineering Building 318	Fall Semester 2006	Completed
Humanities and Social Sciences Building 103	Fall Semester 2006	Completed
Humanities and Social Sciences Building 204	Fall Semester 2006	Completed
Campus Support Facility 109	Fall Semester 2006	Completed
Computer Science Building 202	Fall Semester 2006	Completed
Computer Science Building 206	Fall Semester 2006	Completed
Computer Science Building 207	Fall Semester 2006	Completed
Computer Science Building 209	Fall Semester 2006	Completed
Computer Science Building 209A	Fall Semester 2006	Completed
Computer Science Building 216	Fall Semester 2006	Completed
Emerson Electric Company Hall 101	Fall Semester 2006	Completed
Emerson Electric Company Hall 112	Fall Semester 2006	Completed
Emerson Electric Company Hall 239	Fall Semester 2006	Completed
Emerson Electric Company Hall G31	Fall Semester 2006	Completed

# Information Technology

## Project Management

- **Personal Response System expansion**
  - Expansion includes approximately 11 disciplines, 18 faculty members and 30% of the undergraduate student population
  - 19 Classrooms are outfitted for PRS instruction

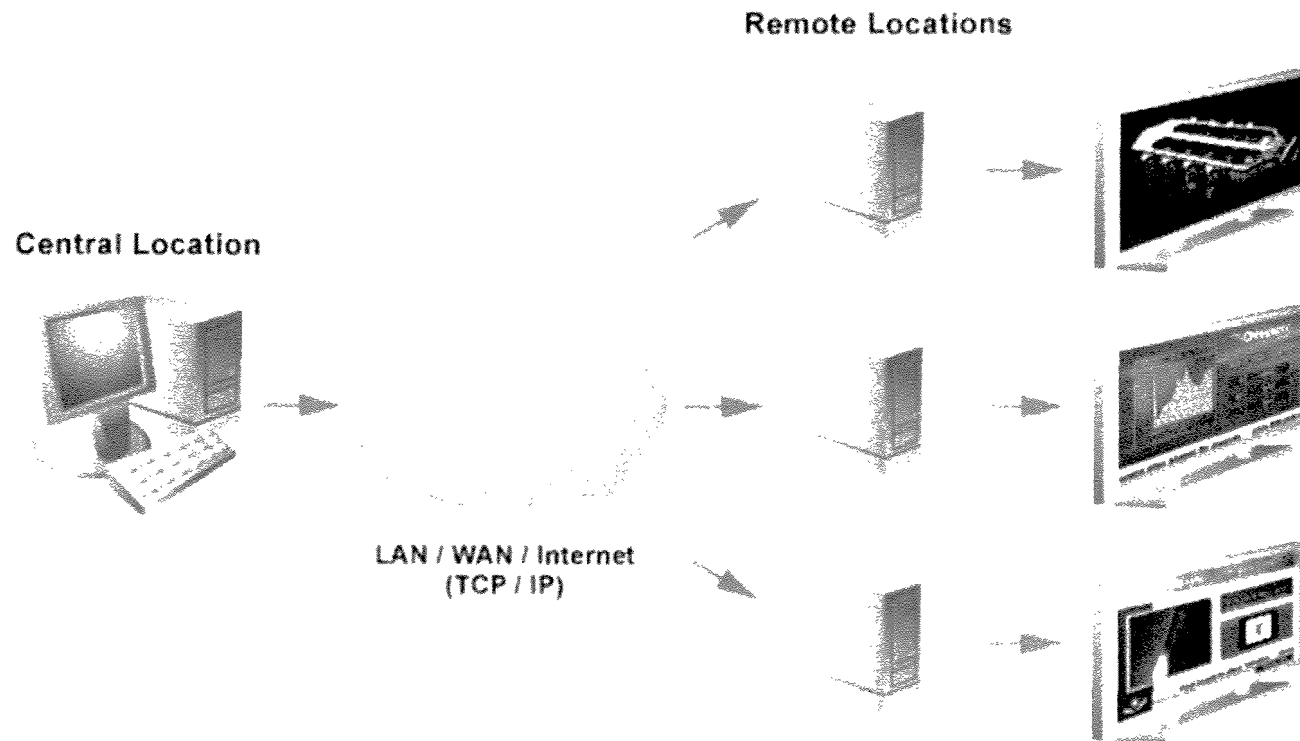


# Information Technology

## Project Management

- **MinerNet Information Network pilot**

- Various campus locations will be equipped with multimedia equipment that will allow for the dissemination of student centric information. (Want to know what's happening on campus next week? MinerNet will keep you informed.)



**UMR**

# **SCHOOL OF MATERIALS, ENERGY AND EARTH RESOURCES**

**UNIVERSITY OF  
MISSOURI-ROLLA**

# SoMEER highlights

- Two new Curators' Professors:
  - » Kent Peaslee (MSE) Curators' Teaching Professor
  - » Jim Drewniak (MSE joint appointment) Curators' Professor
- Welcome Wayne Huebner as new MSE Chair
- MEER Spring Enrollments up 14% from year ago
- Steven Rector (Pet E) donated \$1M for scholarships





**UMR**

# **SCHOOL OF ENGINEERING**



**UNIVERSITY OF  
MISSOURI-ROLLA**

# **Systems Engineering Ph.D.**

**Ph.D. degree program approved by the Board of Curators; CNHE approval pending**

**Program targets professional engineers interested in advancing to senior technical ranks in their organizations e.g. Technical Fellow**

**Program provides options for satisfying residency requirements and completing research for the dissertation compatible with professional work requirements**



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Memo To: Academic Council  
From: UMR Campus Curriculum Committee Meetings  
RE: November 28, 2006 & January 2, 2007 Meetings

**The UMR Campus Curricula Committee recommends to the Academic Council that the curriculum changes and degree proposals on the following DC forms be approved.**

**Approved DC forms:**

DC 0212, SM&IS, Business Administration, approved effective Spring 2007. A proposal to change all of Business Administrations Emphasis Areas to Areas of Concentration which will not be tracked on the CAPS Report.

**The UMR Campus Curricula Committee recommends to the Academic Council that the course changes on the following CC forms be approved.**

**Approved CC forms:**

CC 7112, Chemistry 222, Organic Chemistry I Lab. Course deletion approved effective Spring 2007.

CC 7121, Chemistry 321, Intermediate Organic Chemistry I. The following change is approved effective Spring 2007.

Prerequisites – Present: Chem 223 and 243  
Proposed: Chem 223

CC 7122, Chemistry 323, Intermediate Organic Chemistry II. The following change is approved effective Spring 2007.

Prerequisites – Present: Chem 223 and 243  
Proposed: Chem 223

CC 7123, Engineering 201, Special Topics. New course approved effective Spring 2007  
Catalog Description: This course is designed to give the department an opportunity to test a new course. Variable title.

Credit Hours: 0-6 hours lecture  
Prerequisites: None

CC 7124, Computer Engineering 409, Topics in VLSI Systems. New course approved effective Spring 2007.

Catalog Description: This course deals with issues related to VLSI systems, rather than low-level issues at the transistor or layout level. Topics include VLSI testing, design for test, noise and defect modeling, formal verification, yield analysis, timing analysis and systems-on-a-chip.



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Credit Hours: 3 hour lecture  
Prerequisites: Comp Engr 311

CC 7125, Chemistry 441, Physical Chemistry of Surfaces. The following change is approved effective Spring 2007.

Catalog Description – Present: Absorption at liquid interfaces and properties of surface films. Physical and chemical absorption on solid surfaces. Catalysis.  
Proposed: Adsorption at liquid interfaces and properties of surface films. Physical and chemical adsorption on solid surfaces. Catalysis.

CC 7126, Civil Engineering 375, Low-Rise Building Analysis and Design. The following changes are approved effective Spring 2007.

Catalog Description – Proposed: Characterization of various design loads, load combinations, general methodology of structural designs against lateral loads, code-oriented design procedures, distribution of lateral loads in structural systems, application of the International Building Code in design of loadbearing wall systems, building frame system and moment-resisting frame systems.

Co-listing: ArchE 375

CC 7127, Engineering Management 261, Introduction to Project Management. New course approved effective Spring 2007.

Catalog Description – Proposed: This course covers the fundamentals of project management including project definition, project selection, project planning, estimating, scheduling, resource allocation and project control.

Credit Hours: 3 hour lecture  
Prerequisites: None

CC 7136, Geological Engineering 75, Geological Engineering in Popular Media. New course approved effective Spring 2007.

Catalog Description: Examination of the issues and topics related to geological engineering as presented in movies, television programs, and other communications media.

Credit Hours: Lecture: 1 Lab: 2 Total: 3  
Prerequisites: None

CC 7137, Geological Engineering 336, Geophysical Field Methods. New course approved effective Spring 2007.

Catalog Description: Imaging of selected subsurface and engineering features by various geophysical methods. Special emphasis on ground penetrating radar and magnetic methods; and the acquisition reduction of associated data. One field trip at student expense required.

Credit Hours: Lecture: 2 Lab: 1 Total: 3  
Prerequisites: Geoph 285



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Co-listing: Geophysics 336

CC 7138, Geological Engineering 382, Environmental and Engineering Geophysics. New course approved effective Spring 2007.

Catalog Description: An introduction to the theory and application of the gravity, magnetic, resistivity, self-potential, induced polarization and electromagnetic methods as applied to the solution of engineering and environmental problems.

Credit Hours: Lecture: 2 Lab: 1 Total: 3

Prerequisites: Math 22

Co-listing: Geophysics 382

CC 7140, Geological Engineering 51, Physical and Environmental Geology. Course deletion approved effective Spring 2007.

CC 7145, Art 64, Sculpture. New course approved effective Fall 2007.

Catalog Description: Solving problems in shallow and BAS relief and small clay sculpture, study of contemporary and classical proportion, faux bronze and plaster casting.

Credit Hours: 3 hour lab

Prerequisites: None

CC 7146, Mining Engineering 307, Principles of Explosives Engineering. The following change is approved effective Spring 2007.

Prerequisites – Present: Ge Eng 50; accompanied or preceded by either Cv Eng 215 or Geo 220

Proposed: Ge Eng 50; accompanied or preceded by either Cv Eng 215 or Geo 220 or Geo 125

CC 7147, Architectural Engineering 375, Low-Rise Building Analysis and Design. New course approved effective Spring 2007.

Catalog Description: Characterization of various design loads, load combinations, general methodology of structural designs against lateral loads, code-oriented design procedures, distribution of lateral loads in structural systems, application of the International Building Code in design of loadbearing wall systems, building frame system and moment-resisting frame systems.

Credit Hours: 3 hour lecture

Prerequisites: Preceded and/or accompanied by CE-ArchE 221 or CE-ArchE 223

Co-listing: Civ Eng 375

CC 7150, Business 311, Business Negotiations. New course approved effective Fall 2007.

Catalog Description: The purpose of this course is to understand the practices and processes of negotiation so that you can negotiate successfully in a variety of



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settings. The course is designed to be relevant to the broad spectrum of negotiation problems faced by managers, consultants, etc. Because almost everyone negotiates all the time, this course is relevant to almost any student.

Credit Hours: 3 hour lecture

Prerequisites: Upperclassmen or graduate status

**For the information of the Academic Council, the following EC forms have been submitted by the University departments for an experimental course that will be offered in the near future.**

**Approved EC forms:**

EC 1866, Chemistry 401, Polymer Synthesis, approved effective Spring 2007.

Course Description: The organic synthetic methods of monomer and polymer synthesis will be explored. Mechanistic and structural components will be discussed. Modern methods for polymer synthesis as well as current industrial methods will be discussed. Linear, branched, graft, dendridic, nano-technology and macromers will be topics of discussion.

Credit Hours: 3 hour lecture

Prerequisites: Graduate Status; Chem 381 or equivalent and Chem 321 or equivalent

EC 1867, Biological Sciences 101, Introduction to Environmental Science, approved effective Fall 2007.

Course Description: An introduction to environmental science, with an emphasis on biological aspects of current environmental problems. Topics range from chemical toxicity to global climate change. Environmental challenges facing local species and ecosystems will be emphasized.

Credit Hours: 3 hour lecture

Prerequisites: None

EC 1869, Civil Engineering 301, Construction Planning and Scheduling Strategies, approved effective Spring 2007.

Course Description: This course introduces schedule control techniques and the use of software tools such as Primavera, as applied to construction projects. Specific content areas include development of baseline schedules, progress monitoring and updating, recovery schedules, resource application and leveling.

Credit Hours: 3 hour lecture

Prerequisites: Senior or Graduate Standing

EC 1870, Electrical Engineering 301, Introduction to Scientific Measurement & Instrumentation, approved effective Spring 2007.

Course Description: Introduction to the fundamental principles and theories of scientific measurement. Establishment of a systematic approach in analysis, design, calibration and characterization of sensors and measurement instruments. Survey of



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the latest sensor technologies for measuring various physical and chemical quantities.

Credit Hours: 3 hour lecture

Prerequisites: EE 253 & Stat 217

EC 1871, Math 301, The Evolution of Mathematical Concepts, approved effective Spring 2007.

Course Description: The evolutionary development of selected mathematical concepts from the earliest times to the present will be studied with emphasis on Greek mathematics, Calculus in the 17<sup>th</sup> century and algebra, analysis, and geometry in the 19<sup>th</sup> and 20<sup>th</sup> centuries.

Credit Hours: 3 hour lecture

Prerequisites: Math 22 and a 300 level mathematics or statistics course

EC 1872, Civil Engineering 301, Fundamentals of Traffic Flow Theory, approved effective Spring 2007.

Course Description: This course will cover fundamentals of traffic flow, traffic flow characteristics, statistical distributions of traffic flow parameters, traffic stream models, car following models, continuum follow models, shock wave analysis, queuing analysis, traffic flow models for intersections, network flow models and control, traffic simulation.

Credit Hours: 3 hour lecture

Prerequisites: Stat 213, CE 211, CE 353 (or concurrently enrolled)

EC 1873, Civil Engineering 401, Advanced Traffic Flow Theory, approved effective Spring 2007.

Course Description: This course will cover advanced theories of traffic flow, traffic flow characteristics, statistical distributions of traffic flow parameters, traffic stream models, car following models, continuum follow models, shock wave analysis, queuing analysis, traffic flow models for intersections, network flow models and control, traffic simulation

Credit Hours: 3 hour lecture

Prerequisites: CE 353 (or currently enrolled), knowledge of statistics, graduate standing or consent of instructor

EC 1874, Environmental Engineering 301, Civil Engineering 301, Architectural Engineering 301, Sustainability: Population, Energy, Water, and Materials, approved effective Fall 2007.

Course Description: The course will examine the concepts regarding the continued advancement of humankind while maintaining our ecological niche on earth. Key topics include: population growth, poverty, and impacts of development; energy consumption, sources, storage, conservation and policy; water quality and quantity; materials and building; and policy implications.



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Credit Hours: 3 hour lecture  
Prerequisites: None  
Co-listing: Civ Eng 301, Arch Eng 301

EC 1875, Engineering Management 201, Economic Analysis of Engineering Projects, approved effective Spring 2007.

Course Description: This course covers engineering project analysis from an engineering economics perspective. Topics will include: interest, equivalent worth, comparing alternatives, rate of return methods, depreciation and taxes, inflation and price changes, and benefit-cost analysis.

Credit Hours: 2 hour lecture  
Prerequisites: None

EC 1876, Engineering Management 301, Psychology 301, Leadership for Engineers, approved effective Fall 2007.

Course Description: Provides engineers with a background in leadership concepts and principles; enables students to develop practical skills in leading and managing through a personal inventory analysis. Topics include leadership styles, managing conflicts, conflict resolution, change management, emotional intelligence, team dynamics and business ethics.

Credit Hours: 3 hour lecture  
Prerequisites: Emgt 313 or Psych 374  
Co-listing: Psychology 301

EC 1877, Computer Engineering 301, Embedded Processor System Design, approved effective Spring 2007.

Course Description: Development of hardware and software for embedded systems. Course emphasizes aspects of embedded systems like real-time operating systems, advanced programming, communication schemes, hardware peripherals and sensors, control methodologies, printed-circuit board design, interrupts, microcontrollers, and hardware-software co-design. Course typically requires 1 or more team design projects.

Credit Hours: 3 hour lecture  
Prerequisites: Cp Eng 213

EC 1878, Computer Engineering 301, Electrical Engineering 301, System Engineering 301, Wireless Networks, approved effective Spring 2007.

Course Description: Overview of wireless communications and networking, transmission fundamentals and wireless access protocols, wireless LAN, IEEE 802.11, and introduction to wireless adhoc and sensor networks.

Credit Hours: Lecture: 2 Lab: 1 Total: 3  
Prerequisites: EE 243 or Cp Eng 213; and hardware competency





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EC 1879, IDE 401, Decision Analysis, approved effective Fall 2007.

Course Description: This course teaches decision-making methods under uncertainty.

Course topics include influence diagrams, decision trees, probability theory, subjective probability, risk attitudes, utility axioms, and multiattribute utility models. This course will serve as the foundation toward design decision-making.

Credit Hours: 3 hour lecture

Prerequisites: None

EC 1880, Nuclear Engineering 301, Radiological Engineering, approved effective Spring 2007.

Course Description: Radiation exposure pathways analysis; modeling of radionuclides transport through atmosphere, surface and ground water. Human health impact. Transportation of nuclear waste. Nuclear Waste characterization. Regulatory structure and requirements. Scenario case studies and computer simulation of transport.

Credit Hours: 3 hour lecture

Prerequisites: Nu Eng 205

EC 1881, Business 301, Mathematics and Statistics Essentials, approved effective Fall 2007.

Course Description: This course is an introduction to the essentials of mathematics and statistics for running a business. This course is designed for students planning to enter the MBA program who need coverage in this area and for non-business students who want some business background. Credit in this course can not be applied to any major or minor in business, information sciences and technology, or economics.

Credit Hours: 1.5 hour lecture

Prerequisites: Bachelor Degree or Senior Standing

EC 1882, Business 301, Management and Business Law Essentials, approved effective Fall 2007.

Course Description: This course is an introduction to the essentials of management and business law for running a business this course is designed for students planning to enter the MBA program who need coverage in this area and for non-business students who want some business background. Credit in this course can not be applied to any major or minor in business, information sciences and technology, or economics.

Credit Hours: 1.5 hour lecture

Prerequisites: Bachelor Degree or Senior Standing

EC 1883, Business 301, Accounting Essentials, approved effective Fall 2007.

Course Description: This course is an introduction to the essentials of financial and managerial accounting for running a business. This course is designed for students



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planning to enter the MBA program who need this area and for non-business students who want some business background. Credit in this course can not be applied to any major or minor in business, information sciences and technology, or economics.

Credit Hours: 1.5 hour lecture

Prerequisites: Bachelor Degree or Senior Standing

EC 1884, Business 301, Marketing and Strategy Essentials, approved effective Fall 2007.

Course Description: This course is an introduction to the essentials of marketing and strategy for running a business. This course is designed for students planning to enter the MBA program who need coverage in this area and for non-business students who want some business background. Credit in this course can not be applied to any major or minor in business, information sciences and technology, or economics.

Credit Hours: 1.5 hour lecture

Prerequisites: Bachelor Degree or Senior Standing

EC 1885, Business 301, Management Information Systems Essentials, approved effective Fall 2007.

Course Description: This course is an introduction to the essentials of management information systems for running a business. This course is designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit in this course can not be applied to any major or minor in business, information sciences and technology, or economics.

Credit Hours: 1.5 hour lecture

Prerequisites: Bachelor Degree or Senior Standing

EC 1886, Business 301, Operations Management Essentials, approved effective Fall 2007.

Course Description: This course is an introduction to the essentials of operations management for running a business. This course is designed for students planning to enter the MBA program who need coverage of this area and for non-business students who want some business background. Credit in this course can not be applied to any major or minor in business, information sciences and technology, or economics.

Credit Hours: 1.5 hour lecture

Prerequisites: Bachelor Degree or Senior Standing

EC 1887, Economics 301, Micro and Macro Economics Essentials, approved effective Fall 2007.

Course Description: This course is an introduction to the essentials of micro and macro economics for running a business. This course is designed for students planning to enter



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the MBA program who need this area and for non-business students who want some business background.

EC 1888, Finance 301, Finance Essentials, approved effective Fall 2007.

Course Description: This course is an introduction to the essentials of micro and macro economics for running a business. This course is designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit in this course can not be applied to any major or minor in business, information sciences and technology, or economics.

Credit Hours: 1.5 hour lecture

Prerequisites: Bachelor Degree or Senior Standing

EC 1889, Geological Engineering 301, Fractured Rock Behavior, approved effective Spring 2007.

Course Description: Explores current theoretical approaches to analyzing the behavior of rock masses containing joints, cracks, faults, fractures, etc. Topics include stresses, rigid block kinematics, rock mass strength and deformability, and fluid flow.

Follow-up to the "Fractured Rock Characterization" course.

Credit Hours: 3 hour lecture

Prerequisites: GE 301 sec 6E

EC 1890, Geophysics 301, Transportation Geophysics, approved effective Spring 2007.

Course Description: Applications of geophysics to analysis of bridge substructure, pavements, roadway subsidence, subsurface characterization and vibration measurements.

Credit Hours: Lecture: 2 Lab: 1 Total: 3

Prerequisites: Instructor Consent

EC 1891, Biological Sciences 401, Advanced Cancer Cell Biology, approved effective Fall 2007.

Course Description: Advanced cell biology course examining cellular processes that go awry during tumorigenesis. We will discuss cell cycle controls, signal transduction pathways, DNA repair, telomerase, apoptosis, cell migration and adhesion that are altered in cancer cells. In addition to lecture, will include a weekly section to examine primary cancer literature.

Credit Hours: 3 hour lecture

Prerequisites: Bio Sci 211

EC 1892, Geology 401, Anatomy of a Continental Rift: Afar, Ethiopia, approved effective Spring 2007.

Course Description: An interdisciplinary examination of the process of lithospheric rupture and birth of a new plate margin as exemplified by the active continental rift in the Afar region of Ethiopia. The course will consist of weekly critical review of



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publications in geophysics, petrology, structure, and remote sensing related to rifting as well as an oral and written presentation on selected research topics.

Credit Hours: Lecture: 2 hour lecture

Prerequisites: Graduate Standing or instructor permission

EC 1892, Biological Sciences 301, Cancer Cell Biology, approved effective Fall 2007.

Course Description: Advanced cell biology course examining cellular processes that go awry during tumorigenesis. We will discuss cell cycle controls, signal transduction pathways, DNA repair, telomerase, apoptosis, cell migration and adhesion that are altered in cancer cells.

Credit Hours: 3 hour lecture

Prerequisites: Bio Sci 211

EC 1893, Biological Sciences 301, Biomedical Problems, approved effective Fall 2007.

Course Description: This course will use a problem-based learning approach to examine biological aspects of various medical conditions. Students will work in groups and individually to answer problems related to diagnostic testing and evaluation of diseases and other medical conditions.

Credit Hours: 3 hour lecture

Prerequisites: Bio Sci 211

EC 1894, Biological Sciences 401, Advanced Comparative Chordate Anatomy, approved effective Spring 2008.

Course Description: An integrated, comparative study of chordate structures and systems, with emphasis on evolution, development and function. Includes examination of gross anatomy and histology of selected forms. Independent research projects and primary literature readings required.

Credit Hours: Lecture: 2 Lab: 2 Total: 4

Prerequisites: Graduate Standing

EC 1896, Business 301, Business Negotiations, effective Fall 2007. There was a CC approved for this course #7150. EC form returned to department.

EC 1897, Business 301, Understanding Business Processes, approved effective Fall 2007.

Course Description: This course prepares students to effectively use, manage and participate in the development of information technology applications in support of common business processes. Topics covered include enterprise systems, e-business and information technology.

Credit Hours: 3 hour lecture

Prerequisites: Bus 120

EC 1902, Aerospace Engineering 401, Mechanical Engineering 401, approved effective Spring 2007.



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**Course Description:** This course will provide technically intensive descriptions and analysis of conventional, non-conventional, and advanced aerospace propulsion systems and propulsion system performance from the standpoint of fundamental thermodynamics and fluid/gas dynamics.

**Credit Hours:** 3 hour lecture

**Prerequisites:** AE 335 or ME 325

This form was not on the Jan. 2 agenda but the committee approved it by e-mail vote so that it can be offered for Spring 2007.

**EC 1903, Mechanical Engineering 401, Micro-/Nano-Scale Thermophysics and Energy Transport.**

**Course Description:** Introduces advanced statistical thermodynamics, nonequilibrium thermodynamics, kinetic theory, and quantum theory to analyze thermophysics and energy transport for microscale and nanoscale systems. Covers the fundamental concepts and interactions of photons, electrons and phonons in the forms of waves and particles. Includes applications to ultrafast (femtosecond and picosecond) laser processing.

**Credit Hours:** 3 hour lecture

**Prerequisites:** ME 325

This form was not on the Jan. 2 agenda but the committee approved it by e-mail vote so that it can be offered for Spring 2007.

**EC 1909, Engineering 201, IDE 201, SDELC Design, approved effective Spring 2007.**

**Course Description:** Students will participate in a significant design activity as part of one of the SDELC design team projects. Design activity will be reported and assessed at the end of the semester through a design report and oral presentation.

**Credit Hours:** 1 hour lab

**Prerequisites:** Sophomore standing and membership in a SDELC design team

This form was not on the Jan. 2 agenda but the committee approved it by e-mail vote so that it can be offered for Spring 2007.

**EC 1910, Engineering 201, IDE 201, SDELC Leadership, approved effective Spring 2007.**

**Course Description:** Students will participate in open lecture on team based management and leadership as it pertains to on going project activities. Project activity reports will be generated using real project data and assessed at the end of the semester through a project master plan and oral presentation.

**Credit Hours:** Lecture: 0.5 Lab: 0.5 Total: 1

This form was not on the Jan. 2 agenda but the committee approved it by e-mail vote so that it can be offered for Spring 2007.



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J. Keith Nisbett, Chair  
UMR Campus Curricula Committee

**Volume XXXVII, Number 3  
Minutes of the Academic Council Meeting  
November 9, 2006**

**I. Call to Order, Roll, and Approval of Minutes**

The meeting was called to order at 13:30 by President Kurt Kosbar and roll was taken. The following absentees were noted: Stanley Woronick, Joseph Herdade, Klaus Woelk, Ralph Wilkerson, Mark Mullin, Jeff Smith, Shari Dunn-Norman, Gary Mueller, Neil Book, Mark Fitch, K. M. Isaac, H. L. Tsai, Richard Hall, and Caroline Fisher. The following substitutions were noted: Kent Peaslee for Bill Fahrenholtz, Jerry Tien for Paul Worsey, Cesar Mendoza for D.J. Belarbi, Richard Stephenson for Ronaldo Luna.

The meeting minutes of October 12, 2006 were **approved** as submitted.

**II. Campus Reports and Responses**

**A. President Report – Kurt Kosbar**

- a. Campus Reorganization – The primary AC contact for each committee is listed below.

- Financial Activities Committee (Don Myers)
- Personnel Recommendations Committee (Robert Dubois)
- External Functions and Activities (Lance Haynes)
- Administrative Committee (Richard DuBroff)
- Steering Committee (Kurt Kosbar)

- b. Tenure Committee (Bruce McMillin, Chair) set up a Blackboard page to allow participation of faculty in the P&T policy revision.

**B. Chancellor's Report – John Carney III**

- a. University Name Change – Chancellor's view on the University name change was presented. Details can be found at <http://www.umn.edu/namechange>.
- b. FY08 State Appropriations – All of the state's public colleges and universities have agreed on the operating budget appropriations for FY08. The agreement is to increase overall higher education funding by 12.6 percent and is being forwarded to the Governor and the General Assembly for consideration
- c. MAE Building Project – The financial status of the project was reported.

**C. Provost's Report – Kent Wray**

- a. Restructuring Process – the four planning committees gave their reports to the steering committee on October 30. The steering committee will receive the final recommendations at the end of November and will report to the Chancellor around December 18.
- b. Admissions – The current status was reported.
- c. Research – Awards were down by 7%, proposals submitted were down by 16%.
- d. Academic Alert System – Usage statistics of the system was reported.
- e. International Friends Program – Needs volunteers

**D. Staff Council Report – Kim Frazier**

No report.

**E. Student Council – Beth Groenke**

- a. Student Council is working with IT on the listserv to communicate with the faculty.
- b. Student Council and CGS hosted an open forum for students with the Chancellor regarding the name change for the University.
- c. Student Council will be sponsoring discussion sessions with Dean Goff and other student organizations to discuss the proposed name change further.
- d. A copy of the commencement survey will be sent to Chancellor Carney by the end of this week.

**F. Council of Graduate Students – Adam Sibley**

- a. CGS developed student teaching award criteria.
- b. CGS has been working on the issues of graduate tuition and fees.

**III. Reports of Standing and Special Committees**

**A. Curricula – Keith Nisbett**

- a. Approval of submitted forms was posted on the web. Motion was **voted** and **passed** by acclamation.

**B. Ad Hoc Bylaws Revision Committee – Doug Carroll**

Doug Carroll presented the current efforts of Ad hoc Committee of Bylaws Revision, noting the need of the revision to be aligned with the new UMR administrative structures.



#### **IV. Old Business**

##### **A. Report on Current Referrals and Actionable Items**

Kurt Kosbar reported the status of current referrals and actionable items.

#### **V. New Business and Announcements**

##### **A. New Referrals**

None

##### **B. Announcements**

None

The meeting was adjourned at 14:30.

Respectfully Submitted,

Eun Soo Park  
Secretary, Academic Council

## **ACADEMIC COUNCIL (AC) PRESIDENT'S REPORT FOR NOVEMBER 9, 2006 AC MEETING**

**Campus Reorganization** Numerous committees are working on reorganizing the campus to eliminate the college/school structure. Some of these committees are listed below. The primary AC contact for each committee is listed next to the committee's name

- Ad-Hoc Financial Activities Committee (Don Myers)
- Ad-Hoc Personnel Recommendations Committee (Robert Dubois)
- Ad-Hoc External Functions and Activities (Lance Haynes)
- Ad-Hoc Administrative Committee (Richard DuBroff)
- Ad-Hoc Steering Committee (Kurt Kosbar)
- Ad-Hoc Bylaw and Student Academic Regulation Revision Committee (Doug Carroll, Chair)
- Tenure Committee (Bruce McMillin, Chair)

**Tenure Committee** The faculty standing committee on Tenure is developing a proposal for how the campus Promotion and Tenure Policies could be altered, to accommodate the elimination of the college/school structures. As with all faculty standing committees, the Tenure committee reports to, and through, the Academic Council – which will ultimately vote on what changes to make in this area.

Some faculty have expressed concern that drastic measures may be taken, such as resetting of tenure clocks, or even the elimination of tenure for faculty involved with reorganized departments. While the Tenure committee has not made a final recommendation yet, such extreme measures are not being discussed. Once the Tenure committee has had an opportunity to collect their thoughts, they intend to hold a series of open meetings, to encourage the campus community to review their suggestions, and to make comments. Once that process is complete, the Tenure committee will submit a formal proposal to the Academic Council, for our consideration and approval.

For additional details on the Tenure committee activities, please contact their chair, Dr. Bruce McMillin.

**Ad-Hoc Bylaw and Student Academic Regulation Revision Committee** The Rules, Procedure and Agenda (RP&A) committee has requested this Ad-Hoc committee consider revising the bylaws in two phases. The first phase will involve eliminating the dependence on, and reference to, academic deans, schools and colleges. The RP&A committee has suggested that, where possible, the responsibilities now in the Dean's office should be moved to the department level. The goal is to complete this phase in time for implementation during the 2007-08 academic year.

The committee plans to seek approval from the Academic Council, and the UM System General Council, before submitting the proposal to the UMR General Faculty (most likely at its Spring 2007 regular meeting). A mail ballot will be distributed to all members of the General Faculty

following the general faculty meeting where it is discussed. Any changes will need to be approved by a simple majority of those choosing to vote.

The committee is also charged with recommending changes to the UMR Student Academic Regulations, again to eliminate the dependence on, and reference to, schools, colleges and academic deans. These changes will only need to be approved by the Academic Council.

If time permits, and the committee is so inclined, it may consider proposing more fundamental structural changes to the General Faculty, Academic Council, and Faculty Standing committee structures.

For more information, please contact the committee's chair, Dr. Doug Carroll.

**On the Horizon** The Rules, Procedure and Agenda (RP&A) has recently addressed a number of issues, which are not ready for Academic Council action yet. A number of them have been referred to faculty standing committees. For additional information on the topics discussed, and what may be coming to the Academic Council in the near future, please contact Dr. Kurt Kosbar, or consult the RP&A minutes.

## REFERRALS

All open, and recently closed, referrals to AC committees are listed below, along with a summary of their status. Additional information on these referrals is available from the AC President, or the Chair of the appropriate committee.

<b>Referral</b>	<b>Committee</b>	<b>Status</b>
Revision of Student Academic Regulations, regarding instructor drops for poor performance	AC Passed Motion, 10/12/06	Motion communicated to Provost – Implementation Pending (Spring 2007?)
Review of pre-requisite policy and practices	Academic Freedom and Standards	Under review by committee
Faculty/Staff headcounts and demographics	Budgetary Affairs	Under review by committee
Review of procedures associated with graduate and undergraduate certificate programs	Curricula	Verbal summary provided to RP&A, anticipate written report to RP&A soon.
Use of end-of-semester evaluations	Personnel	Under review by committee
Consensual amorous relationship policy	Personnel	Verbal response given at RP&A, Anticipate Board of Curators action in December.
Approval of student organization constitutions	Student Affairs	Under review by committee
Mid semester student evaluations	Academic Freedom and Standards, and Personnel	Under review by committees
Modification of bylaws, to accommodate elimination of colleges and schools	Ad-Hoc Bylaw Revision Committee	Under review by committee
Modification of student academic regulations to accommodate elimination of colleges and schools	Ad-Hoc Bylaw Revision Committee	Under review by committee
Modification of Promotion and Tenure regulations to accommodate elimination of colleges and schools	Tenure	Under review by committee
Modification of bylaws, to restructure faculty governance structure	Ad-Hoc Bylaws Revision Committee	Tabled, pending completion of tasks which accommodate elimination of colleges/schools

## INTERCAMPUS FACULTY COUNCIL (IFC) REPORT

The following report is a summary of activities at the October 13, 2006 IFC meeting. The next IFC meeting is scheduled for November 16, 2006. More information on the IFC, and UMR's representatives, appears at the end of this report.

Three subcommittees were formed to look at the topics listed below:

**Committee 1** Assessment and Accountability. UMR representative: Bob Schwartz. This committee will discuss the manner in which we measure our effectiveness as an institution, and may address how this relates to matters which are currently generating attention at the national level (see for example: <http://www.ed.gov/about/bdscomm/list/hiedfuture/reports.html>). A notebook is being developed, which will address what we are currently doing in this area. Some UM System campuses have used the CLA (collegiate learning assessment) exam in the past, although the future use of that exam is unclear.

**Committee 2** Personnel Issues. UMR representative: Frank Blum. This committee will discuss a number of issues, including proposed policies on:

- *Amorous relationships* – The name of this has been changed to Consensual Amorous Relationship Policy, and a revised draft distributed. It is still anticipated that the Board of Curators will take up this issue at their December 2007 meeting.
- *Faculty Leave Policy*. There is currently some confusion, and inconsistency, in the way faculty leaves and sabbaticals are handled.
- *Background Checks*. There have been suggestions that the UM system should perform some sort of criminal background check of new faculty hires.
- *Pausing, and extending, tenure clocks*. There have been proposals that all UM system campuses should allow a faculty member to request that the tenure clock be paused, or extended, for certain events – such as family leave. There is also concern that the existing tenure policy is not giving some faculty enough time to fully develop their research programs.

**Committee 3** Administrative Policy. UMR representative: Kurt Kosbar. This committee will review the procedures used at the university to insure compliance with the Office of Management and Budget Circular A-21 ([http://www.whitehouse.gov/omb/circulars/a021/a21\\_2004.html](http://www.whitehouse.gov/omb/circulars/a021/a21_2004.html)), which “describes principles for determining costs applicable to grants...” In addition, the committee will review the switch to an electronic procurement system.

**Decoupling of Educational Fees** There continues to be discussions on how individual campuses can accommodate their different markets, although there indicators that this can be accomplished without altering the base educational fee charged by all UM System campuses.

**Non Tenure-Track (NTT) Faculty** The final touches were placed on the NTT faculty document. As described in a previous report, this document encourages the consolidation of all full-time ranked NTT faculty positions, into one of a limited number of ranked positions. Bob Schwartz was UMR's representative to the committee which drafted this document. The final report should be available soon on the web at:

<http://www.umsystem.edu/ums/departments/aa/faculty/nontenure.shtml>

**Background on IFC** The IFC is 12 member committee, which three representatives from each of the four campuses: UMC, UMR, UMSL, and UMKC. The three members from UMR are elected annually by the UMR Academic Council, and are traditionally the Past President, President, and President-Elect of the Academic Council. The IFC meets monthly, in Columbia, during the academic year. These meetings typically involved a session where the 12 representatives discuss matters between themselves, and are then joined by a variety senior UM System Staff. The meetings typically conclude with a discussion with the UM System President, and the President's staff.

Minutes of past IFC meetings, and other IFC information is available on the web at:

<http://www.umsystem.edu/ums/departments/aa/faculty/council.shtml>

The IFC was created by executive guideline 11, which is documented in the UM System Collected Rules and Regulations, section 20.100. This is available on the web at:

<http://www.umsystem.edu/ums/departments/gc/rules/administration/20/100.shtml>

Faculty who wish to learn more about IFC business, or suggest topics for discussion at IFC are encouraged to contact any/all of the UMR representatives. For the 2006-07 academic year, the UMR IFC representatives are: Dr. Bob Schwartz, Dr. Kurt Kosbar and Dr. Frank Blum (who have jointly prepared this report). Their contact information is given below:

Robert Schwartz, Academic Council Past-President  
222 McNutt Hall  
Phone: 341-6025  
[rwschwar@umr.edu](mailto:rwschwar@umr.edu)

Kurt Kosbar, Academic Council President  
227 Emerson Electric Company Hall  
Phone: 341-4894  
[kosbar@umr.edu](mailto:kosbar@umr.edu)

Frank Blum, Academic Council President-Elect  
138 Schrenk Hall  
Phone: 341-4451  
[fblum@umr.edu](mailto:fblum@umr.edu)

Respectively Submitted,

November 2, 2006

Dr. Kurt Kosbar  
Academic Council President

**John F. Carney III**  
**Academic Council**  
**November 9, 2006**

- ◆ **Possible Name Change/University Research Park Update**
  
- ◆ **Capital Campaign Trips**
  - California
  - Colorado
  
- ◆ **FY08 State Appropriations**
  
- ◆ **MAE Building Project**
  
- ◆ **Chevron Gift and Signing**





**UMR**

# **ACADEMIC COUNCIL REPORT**

**WARREN K. WRAY  
PROVOST AND  
EXECUTIVE VICE CHANCELLOR**

**November 9, 2006**



**UNIVERSITY OF  
MISSOURI-ROLLA**

**UMR**

# **RESEARCH**

**UNIVERSITY OF  
MISSOURI-ROLLA**

- 1) Slide #1: This year's Plus-up Proposals which will move forward for consideration by our Congressional delegation. \$61.7M total ask.
  
2. Slides #2 and #3: not positive news. New Awards and Proposals submitted are down significantly since last year. Awards stand at \$9.9M through September, down 7.1%. Submissions stand at \$23.8M, down 16.3%.

Other newsworthy items:

- 1) We received the official notice from NSF of Ray Luechtefeld's (Engineering Management) CAREER Award entitled: "Development and Evaluation of Portable, Computationally Intelligent Team Training." 5 year award amount: \$524,624.
- 2) Last week we held a planning meeting for the Center for Aerospace Manufacturing Technologies' Industrial Consortium. Over 70 attendees were there representing over 20 companies including Boeing, Pratt & Whitney, Rolls Royce and Lockheed Martin.
- 3) A new faculty member in ECE, Hai Xiao, has already received a grant from the Office of Naval Research entitled "Understanding the Optical Behavior of Zeolite Thin Films and Nanoparticles to Develop Micro Chemical Sensors." A three year \$299,968 award.

## New FY08 Federal Plus-Up Proposals

PI	Title	Requested \$M
Krishnamurthy / Lee	Advancement of Renewable Hydrogen Logistics Testbed	5
Drewniak / Beetner	Center for Detection and Neutralization of Electronically Initiated Improvised Explosive Devices	7.5
Blum / Leventis	Center for Electronic and Structural Nanomaterials	4.9
Wunsch / Sarangapani	Center for Situational Awareness: Border Security	7.5
Rahaman / Day	Consortium for Bone and Tissue Repair and Regeneration	3.4
Liou / Leu	Direct Digital Manufacturing Technology for Aerospace Metals, Ultrahigh Temperature Ceramics, and Functionally-graded Composites	6
Crow	Distributed Energy Research and Development Center	2
Richards	High Performance Alloy Materials and Advanced Manufacturing of Steel Castings for New Lightweight and Robotic Weapon Systems	4.4
Chandrashekhara	Multifunctional Transparent Composites for Force Protection	4
Tsai / O'Keefe	Ultrashort Pulse Laser Technology	12
Zoughi	Validation and Maintenance Facility Implementation of Multi-modal Nondestructive Evaluation Approach for Corrosion Detection and Analysis in Aircraft	5
Total		61.7

# FY 07: Proposals Awarded through September

	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Totals
Biol. Sci.	0	5,000	0										5,000
Chem.	612,910	12,667	120,000										745,577
Comp. Sci.	294,281	0	87,160										381,441
Engl. & Tech. Comm.	0	0	0										0
Hist./PS	0	0	0										0
Math/Stat	0	0	0										0
Phil.	0	0	0										0
Phys.	273,910	-20,668	98,432										351,674
Psych.	98,604	98,152	0										196,756
<b>A&amp;S Totals:</b>	<b>1,279,706</b>	<b>95,151</b>	<b>305,592</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,680,449</b>
Materials Sci. & Eng.	265,000	580,476	385,513										1,230,990
Mining & Nuclear Eng.	840,818	172,965	144,713										1,158,495
Geol. Sci. & Engr.	10,000	172,642	130,000										312,642
<b>SoMEER</b>	<b>1,115,818</b>	<b>926,083</b>	<b>660,226</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,702,127</b>
Interdisciplinary Engr	50,000	6,000	77,000										133,000
Chem & Biol. Engr.	1,490	2,500	10,175										14,165
Civil, Arch. & Env. Engr.	54,470	416,115	272,080										742,665
ECE	15,000	316,937	1,424,846										1,756,783
Engr. Mgt.	0	158,620	0										158,620
MAEM	514,280	326,534	60,512										901,326
<b>SOE Totals</b>	<b>635,240</b>	<b>1,226,707</b>	<b>1,844,613</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,706,560</b>
Econ. & Finance	0	0	0										0
Business Admin.	98,604	861,940	0										960,544
Info Sci. & Tech.	116,400	0	0										116,400
Dean's Office	0	0	0										0
<b>SMIS</b>	<b>215,004</b>	<b>861,940</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,076,944</b>
Enrollment Mgt	0	0	0										0
International Affairs	0	0	0										0
Minority Affairs	0	0	0										0
Other	0	10,000	0										10,000
RPDC	21,550	0	659,924										681,474
KUMR	0	0	0										0
<b>Grand Totals:</b>	<b>3,267,318</b>	<b>3,119,881</b>	<b>3,470,355</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9,857,554</b>

*-7.1% compared to FY06*

Total: \$9.9 M

# FY 07: Proposals Submitted through September

	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	FY06
Biol. Sci.	644,137	209,636	13,774										
Chem.	1,041,565	300,749	506,022										
Comp. Sci.	1,040,264	0	243,880										
Engr. & Tech. Comm.	0	0	0										
Hist./PS	0	0	0										
Math/Stat	0	0	51,294										
Phil.	0	0	0										
Phys.	40,000	0	1,016,960										
Psych.	98,604	98,152	0										
<b>A&amp;S Totals:</b>	<b>2,864,569</b>	<b>608,537</b>	<b>1,831,930</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,305,036</b>
Materials Sci. & Eng.	699,707	2,050,548	214,718										
Mining & Nuclear Eng.	846,244	73,200	2,240										
Geol. Sci. & Engr.	0	300,260	0										
<b>SoMEER</b>	<b>1,545,951</b>	<b>2,424,007</b>	<b>216,958</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,186,916</b>
Interdisciplinary Eng	0	93,724	61,029										
Chem & Biol. Engr.	1,053,594	736,242	358,703										
Civil, Arch. & Env. Engr.	45,000	1,050,445	381,019										
ECE	1,683,831	2,718,983	532,688										
Engr. Mgt. and System Eng	499,640	188,151	79,907										
MAEM	1,287,543	878,306	323,027										
Dean's Office	0	0	0										
<b>SOE Totals</b>	<b>4,569,608</b>	<b>5,665,851</b>	<b>1,736,371</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11,971,830</b>
Econ. & Finance	0	0	0										
Business Admin.	98,604	861,940	0										
Info Sci. & Tech.	0	0	0										
Dean's Office	0	0	0										
<b>SMIS</b>	<b>98,604</b>	<b>861,940</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>960,544</b>
Enrollment Mgt	0	0	0	0	0	0	0	0	0	0	0	0	0
International Affairs	0	0	0	0	0	0	0	0	0	0	0	0	0
Grad/UG Studies	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	10,000	0	0	0	0	0	0	0	0	0	0	10,000
RPDC	1,332,038	0	0	0	0	0	0	0	0	0	0	0	1,332,038
KUMR	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grand Totals:</b>	<b>10,410,769</b>	<b>9,570,335</b>	<b>3,785,259</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>23,766,363</b>

*-16.3% compared to FY06*

**Total: \$23.8 M**

**UMR**

# **UNDERGRADUATE AND GRADUATE STUDIES**

**UNIVERSITY OF  
MISSOURI-ROLLA**



## UNDERGRADUATE AND GRADUATE STUDIES

### Academic Alert System- Update

- The Academic Alert System was established to serve as an on-line resource to assist students with success in their courses. The system includes a customized reporting function which is available for use by all UMR departments. A recent report from the system indicates more academic alerts have been issued this semester to date than were issued during the entire fall 2005 semester.
- Approximately **873 alerts** have been issued this semester for **615 individual students**.
- Approximately **35%** of all academic alerts were issued to students in the Freshmen Engineering Program.
- The majority of alerts were issued due to poor performance and lack of attendance in class.
- Approximately **125 UMR instructors** have utilized the academic alert system this semester.
- Approximately **157 academic advisors** have been engaged with students on academic alert issues.

## UNDERGRADUATE AND GRADUATE STUDIES

- When a student receives an alert, they are informed of the actions they need to take in order to improve their academic performance in the course. Students are also encouraged to meet with their academic advisor to discuss the recommended actions and the process for closing the academic alert.
- The mid term report indicates that approximately **74% of all academic alerts have not been closed out.**

**UNDERGRADUATE AND GRADUATE STUDIES**

- Academic advisors and instructors are encouraged to communicate with students about the alert and to close out the alert by entering completion dates for each of the actions taken by the student. If a student fails to complete a recommended action, or if the system is not updated by the advisor or instructor, an email reminder is sent to the student and their advisor indicating they have missed a required deadline. Regular electronic communication of this nature continues until the alert is closed out.
- For more information, contact UGS at 341-7276 or visit: <http://campus.umn.edu/acalert/>.

## UNDERGRADUATE AND GRADUATE STUDIES

- **Clickers in the Classroom Workshop Series**
- Positive responses from students enrolled in clicker courses indicate that most find lectures to be more engaging and motivational, and feel that the technology enhances learning. The positive impact of the use of the technology is reflected on tests as well; as Chemistry I continues to report a consistent higher level of learning as reflected in test scores.
- The growth continues with new faculty users coming aboard in spring of 2007. The new courses include Principles of Macroeconomics (Econ 122), Engineering Physics I (Phys 23) and Civil Engineering 230 and 234, engaging over 500 UMR students.

## UNDERGRADUATE AND GRADUATE STUDIES

- Faculty who are interested in using clickers in their classes should contact Angela Perkins in the CERTI office at 341-7648 for the times and locations of the following workshops.
- **Clickers in the Classroom Workshop Series, Sponsored by CERTI & IT**
- **10/26/06**-Software Basic Training
- **11/10/06**-Intermediate/Advanced Applications Training
- **12/13/06**- Preparation Session
- (Contact Angela Perkins at ext. 7648 for times & locations.)

## UNDERGRADUATE AND GRADUATE STUDIES

- **HLC Self Study Data Collection Timeline**
- During the 2008-09 academic year, UMR will undergo an institution-wide accreditation review by the Higher Learning Commission (HLC) of the North Central Association of Colleges and Schools.
- During the spring semester, all UMR units will be required to provide evidence-based reporting to demonstrate how the university is meeting or exceeding each of the HLC criterion for our instructional self-study.
- This data collection process is in support of our ongoing efforts in assessment and improvement, and gives us an opportunity to demonstrate our many strengths and points of excellence.
- For more information, visit:  
<http://accreditation.umr.edu/>

## **UNDERGRADUATE AND GRADUATE STUDIES**

### **Undergraduate Research Day at the Capitol**

- The Office of Undergraduate and Graduate Studies (UGS) is currently accepting nominations for Undergraduate Research Day at the Capitol, which will be held April 11, 2007 at the capitol building rotunda in Jefferson City, MO.
- Faculty members are encouraged to nominate undergraduates to serve as ambassadors by sharing their undergraduate research experiences with state lawmakers during the event.
- The purpose of this event is to demonstrate to lawmakers in Jefferson City the unique opportunities undergraduate students have to participate with faculty in research at the University of Missouri. Successful nominees should be able to convey their research experience and enthusiasm to state representatives, senators, and other state officials in a poster session.
- UGS is seeking students from a broad range of disciplines. We are especially interested in projects that relate to the economic development of Missouri and issues important to the state legislature (e.g., education, health, agriculture, transportation and infrastructure, social services). Presentations that include visual demonstrations or displays beyond the typical poster are also encouraged.
- Selection of student ambassadors will be based on geographical distribution, relevance of the project to the state, quality of the project, and distribution among the four UM campuses.

## **UNDERGRADUATE AND GRADUATE STUDIES**

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The logo for the University of Missouri-Rolla (UMR) is located in the top left corner. It consists of the letters "UMR" in a bold, white, sans-serif font, set against a black background that is shaped like a stylized, jagged corner or a torn piece of paper.

**UMR**

## **UNDERGRADUATE AND GRADUATE STUDIES**

Nominations from the UMR campus are due December 15, 2006.  
Nominations should be submitted to:

Dr. Harvest L. Collier, Vice Provost  
c/o Amy Gillman, Assistant to the Vice Provost  
Office of Undergraduate & Graduate Studies  
209 Norwood Hall  
[gillman@umr.edu](mailto:gillman@umr.edu)

UGS will screen applications for academic discipline representation, geographical diversity within the state, and appropriateness of the research topic.

For more information about this event, and a copy of the application form, contact the Office of Undergraduate & Graduate Studies at 341-7600.

The logo for the University of Missouri-Rolla is located in the bottom right corner. It features the text "UNIVERSITY OF" on the top line and "MISSOURI-ROLLA" on the bottom line, both in a white, sans-serif font. The text is set against a black background that is shaped like a stylized, jagged corner or a torn piece of paper, mirroring the design of the UMR logo in the top left.

**UNIVERSITY OF  
MISSOURI-ROLLA**

## **UNDERGRADUATE AND GRADUATE STUDIES**

Nominees for this event must meet the following criteria:

- Students must be undergraduates at the University of Missouri during the 2006-2007 Academic Year.
- Students must be residents of the State of Missouri.
- Research must have been completed under the guidance of a University of Missouri faculty member.
- Research projects must follow the methodology of the appropriate academic discipline.
- The research project must be of sufficient quality to be presented at a professional academic meeting.

**Upcoming Events For Faculty**

- November 1-Freshman Faculty Forum, 4:00-5:00 PM, Silver & Gold-Havener Center
- November 3-Academic Advising Conference- Advising Students on Probation, 3:00-4:30 PM, Havener Center
- November 8-New Faculty Teaching Scholars Luncheon, 11:45 AM-1:00 PM, Carver Room, Havener Center
- November 10-Intermediate/Advanced Applications Training-, Clickers in the Classroom Series, Time/Location TBD

## **Upcoming Events For Students**

- November 2-Voyager Seminar-The Writing Center-Achieving Success in Writing, 3:00 PM, 113 Campus Support Facility
- November 6-Voyager Seminar- Playing IT Safe, Copyright Law & Computer Ethics, 3:00 PM, TJ Hall
- November 8-Honor's Seminar-Discover Undergrad. Research, 7:00-8:00 PM, Havener Center
- November 15-19-National Collegiate Honor's Council Conference
- November 16-Voyager Seminar-Take the Torture out of Testing, 6:00 PM, TJ Hall



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# **SCHOOL OF EXTENDED LEARNING**



**UNIVERSITY OF  
MISSOURI-ROLLA**

# School of Extended Learning

Academic Council Announcement  
November 2, 2006

UMR is featured in the October issue of the PE Magazine for Professional Engineers published by NSPE. The article discusses how universities are addressing the education needs of corporations by providing distance education opportunities. Other schools mentioned in the article include the University of Michigan, University of Texas, Stanford and the University of Colorado.

The logo consists of a black triangle pointing downwards, with the letters "UMR" in white, bold, sans-serif font inside it.

**UMR**

# **School of Extended Learning**

UMR's first Blended Learning opportunity will be available to undergraduate students during the Spring 2007 Semester. A section of Mechanics of Materials will be taught over the internet using distance education technology. This will allow students to enroll and receive instruction over the web.

The logo is a black triangle pointing upwards, with the text "UNIVERSITY OF MISSOURI-ROLLA" in white, sans-serif font inside it.

**UNIVERSITY OF  
MISSOURI-ROLLA**

# School of Extended Learning

## International Affairs:

- International Affairs continues to provide enrichment activities for UMR's international student community. The latest activity was an old fashioned Ozark Barn Dance on October 20. It was well received and enjoyed by all that attended.
- The International Friends Program which matches international students with individuals and families in the community can still use more volunteers. These newly matched friends can share cultures by participating in a variety of fun activities and discussions as determined by the host. If interested, contact the Office of International Affairs.



# School of Extended Learning

## Video Communications Center:

- Construction is continuing on a new video classroom in the basement of the UMR Library. Library G-14 will hold 16 on-campus students when completed and provide the latest technology to instructors broadcasting video courses.
- Two video classroom facilities are also available at the Engineering Education Center in St. Louis. These facilities allow departments to hire adjuncts in the St. Louis area and broadcast courses back to UMR for on-campus students or rebroadcast to distance

# School of Extended Learning

## Distance and Continuing Education:

- Conferences scheduled for fall are in the final stages of preparation and anticipating over 1,000 attendees.
  - Expanding Your Horizons (EYH)  
550 participants, November 3, 2006
  - Artificial Neural Networks in Engineering (ANNIE)  
120 participants, November 6-8, 2006
  - 49<sup>th</sup> Asphalt Conference  
300 participants, November 28-29, 2006
  - UMR/MoDOT Highway Geophysics  
100 participants, December 4-7, 2006



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# **INFORMATION TECHNOLOGY**

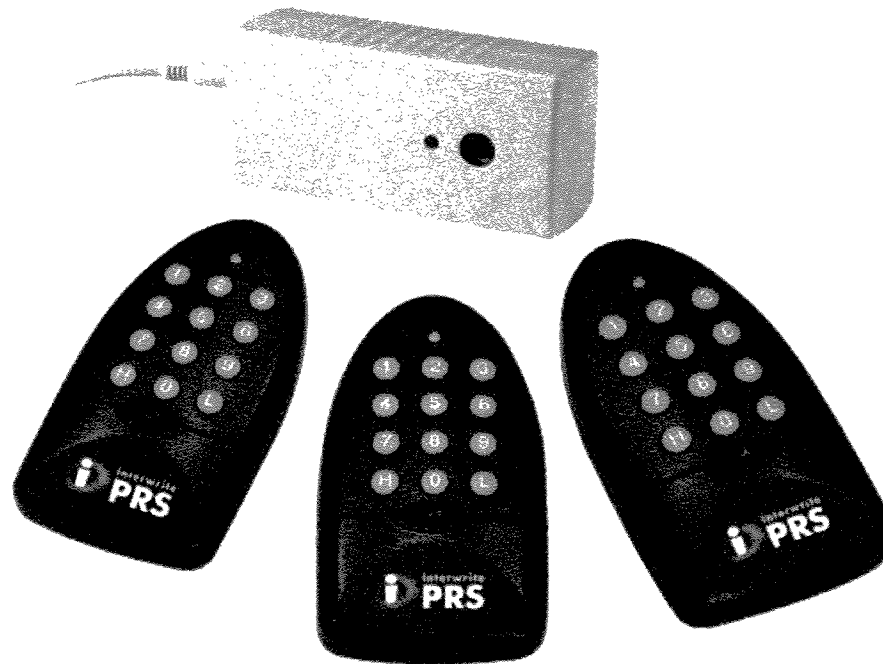


**UNIVERSITY OF  
MISSOURI-ROLLA**

# Information Technology

## Project Management

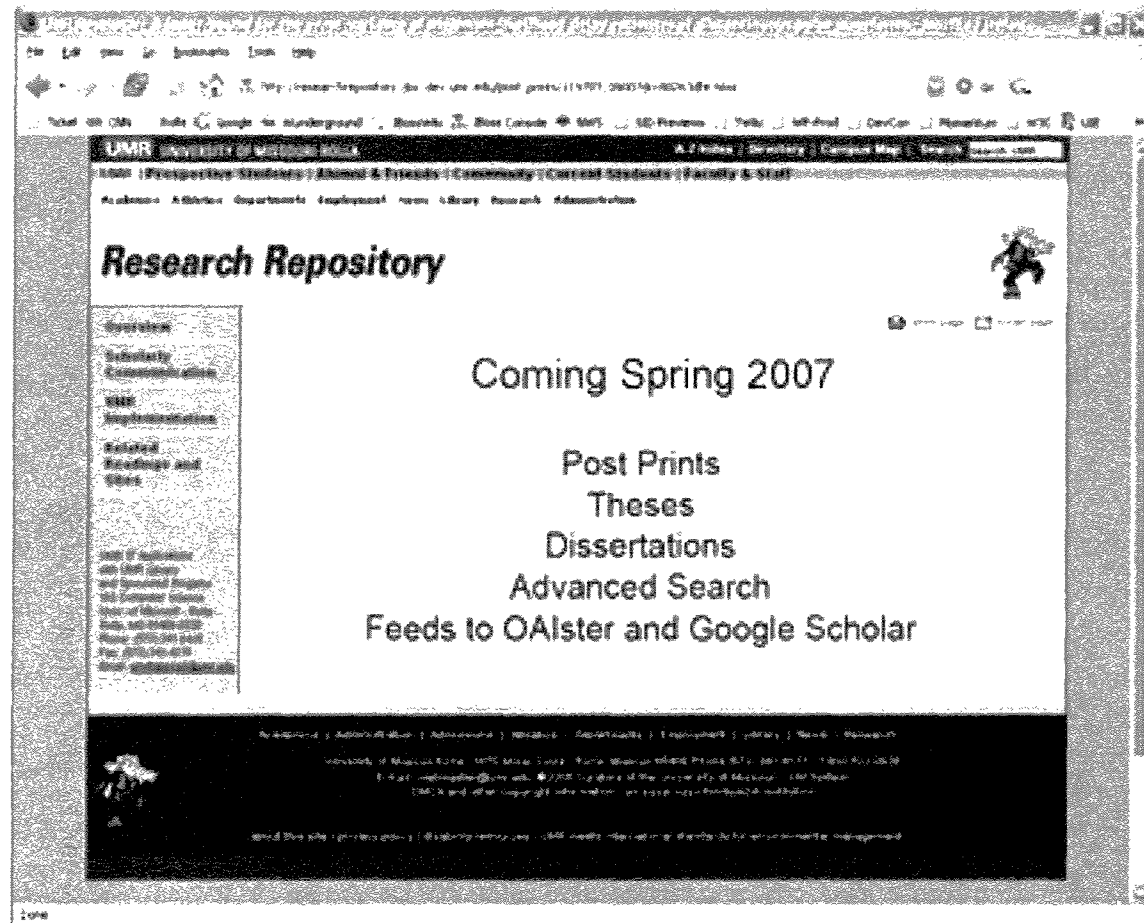
- **Personal Response System expansion**
  - Expansion includes approximately 9 disciplines, 20 faculty members and 1,800 students



# Information Technology

## Applications/Enterprise Reporting

- **Planning & design continues to progress for Research Repository**
  - Showcase & market UMR Research to internal and external research communities



# Information Technology

## Applications/Enterprise Reporting

- Upgrade to Blackboard version 7.1 is complete

The screenshot shows the Blackboard Academic Suite interface in a Mozilla Firefox browser window. The address bar displays the URL: <http://blackboard.UMR.edu/webapps/portal/frameset.jsp>. The top navigation bar includes links for Home, Help, and Logout. Below this, a secondary navigation bar lists various categories: Email Policy, Everyday Pages, Ideas, IT Training, Personal, The Other Folder, Tier II Tools, Training - Continuing, UMR - IT, User Accounts, and Getting Started. The main content area is titled "Welcome, Christopher" and features several widgets:

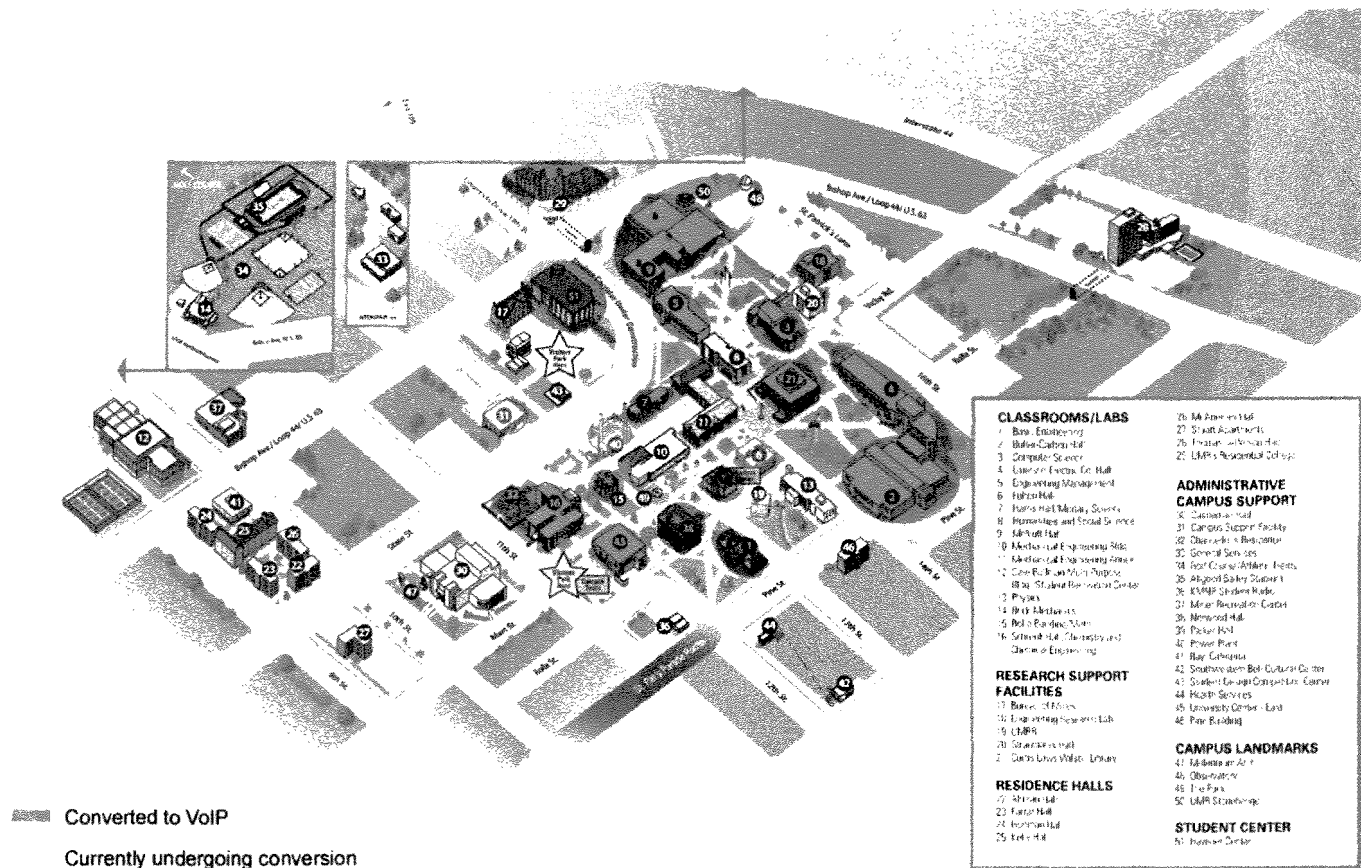
- What's New:** Lists courses you are teaching, including "RWELCH.IT.IT-TRAINING: Training Test Course" and "HAWLEYD-UMR.IT-DEV: Blackboard Primer Test Course". It also shows announcements and courses you are enrolled in.
- My Announcements:** Displays a message stating that no system, course, or organization announcements have been posted in the last 7 days.
- My Calendar:** Shows a message stating that no calendar events have been posted in the last 7 days.
- Quick Tutorials Catalog:** Provides a link to learn more about the Blackboard Academic Suite through short clips.
- My Courses:** Lists courses you are teaching, including "Blackboard Primer Test Course" and "Training Test Course".
- My Organizations:** Lists organizations you are leading, including "AFS Conversion Beta" and "Information Technology - Training".
- My Tasks:** Shows a message stating that no tasks are due.

The interface includes standard browser controls and a "Done" button at the bottom left.

# Information Technology

## Networks and Computing

- **Voice-Over IP Telephony Project**
  - Over 1,000 VoIP phones deployed

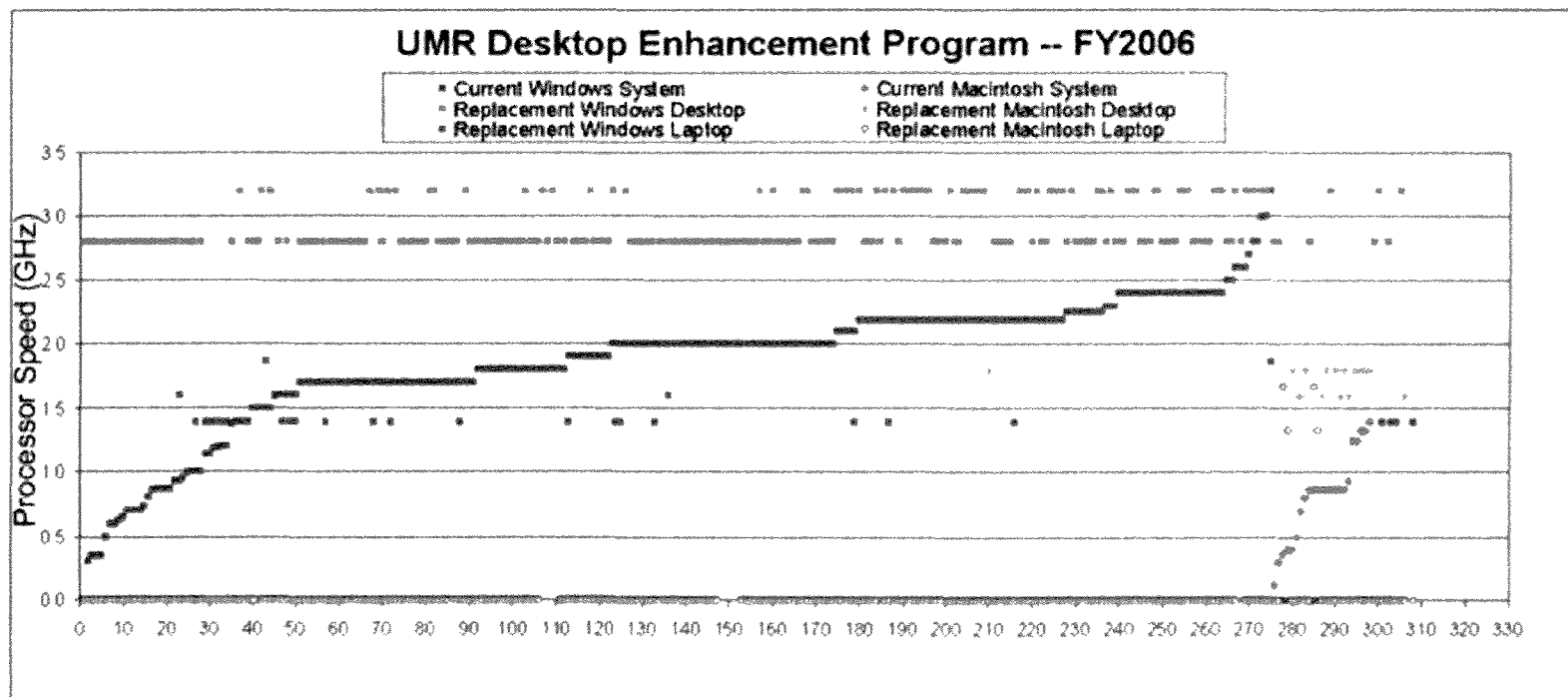


# Information Technology

## Solutions Center

- **Desktop Enhancement**

- FY2006 cycle complete with 320 new computers deployed
- FY2007 in progress with 10 new computers deployed





# Information Technology

## Solutions Center

### • Technology Classrooms

- 60% of centrally scheduled classrooms (53 out of 87) will be outfitted with a standard technology package to support multimedia teaching needs during the Fall Semester 2006. The remaining 40% will be completed by the Fall Semester 2007.

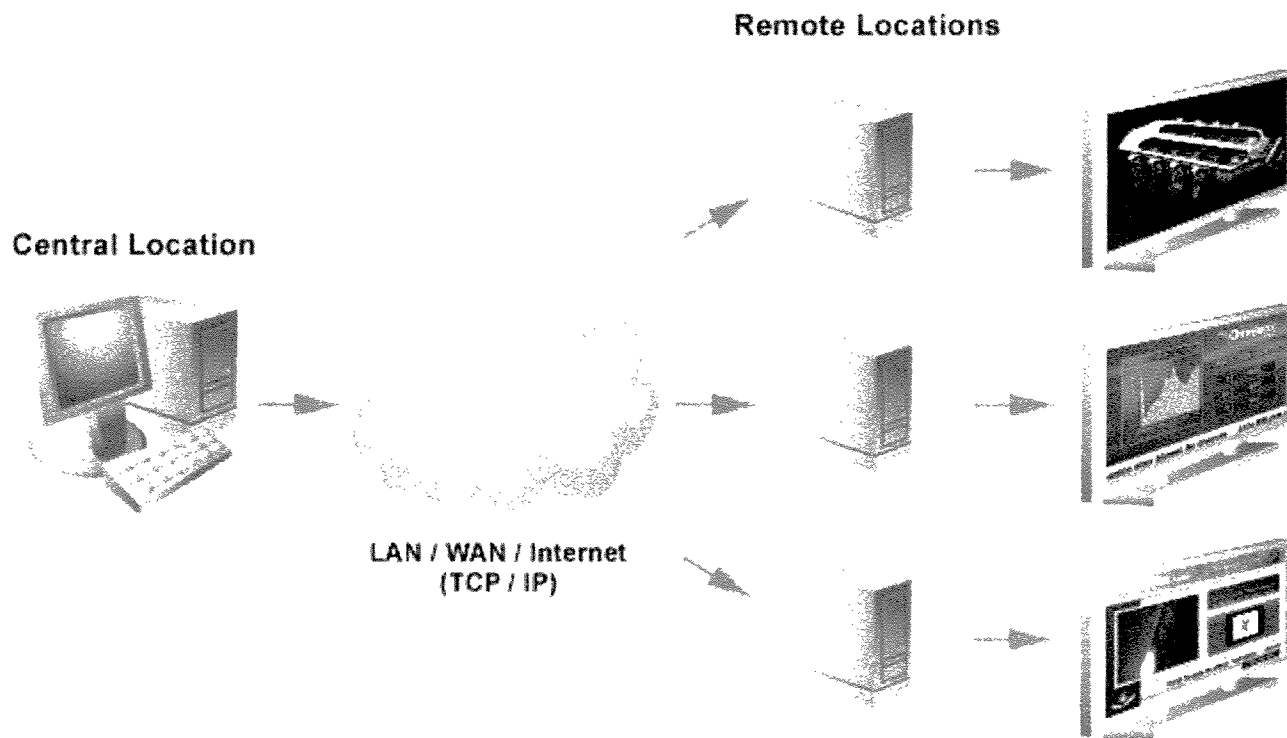
Building/Room #	Deployment Schedule	Status
 Civil Engineering Building 120	Fall Semester 2006	Completed
 Civil Engineering Building 125	Fall Semester 2006	Completed
 Civil Engineering Building 315	Fall Semester 2006	Completed
 Humanities and Social Sciences Building 201	Fall Semester 2006	Completed
 Physics Building 104	Fall Semester 2006	Completed
 University Center 105	Fall Semester 2006	Completed
 Humanities and Social Sciences Building G5	Fall Semester 2006	In Progress
 McNutt Hall 204	Fall Semester 2006	In Progress
 Schrenk G3	Fall Semester 2006	In Progress
 Schrenk Hall 126	Fall Semester 2006	In Progress
 Schrenk Hall 140	Fall Semester 2006	In Progress
 Schrenk Hall 321	Fall Semester 2006	In Progress
 University Center 213	Fall Semester 2006	In Progress

# Information Technology

## Project Management

- **MinerNet Information Network pilot**

- Various campus locations will be equipped with multimedia equipment that will allow for the dissemination of student centric information. (Want to know what's happening on campus next week? MinerNet will keep you informed.)



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# **LIBRARY AND LEARNING RESOURCES**

**UNIVERSITY OF  
MISSOURI-ROLLA**

# LIBRARY

- 1) Two historical newspaper online resources added:

Wilson Library now has online access to the full text of the historical *New York Times* from 1851 to 2003. Every issue of the *New York Times* includes the complete paper--cover-to-cover--with full-page and article images in downloadable PDF. (Full-text articles from the newspaper from 2004 to the present are available in LexisNexis Academic, another library database.)

Wilson Library now provides access to NewspaperARCHIVE.com, a historical newspaper database that contains a collection of newspapers from the United States (excluding Missouri papers) and from a few other countries, including the United Kingdom and Canada. Library users can view, save, and print PDF images from newspapers dating from 1759 to 1977.

- (2) Library staff is beginning the process of using the Association of College and Research Libraries (2004) as the basis for a Library Self Study in response to the UMR Self-Study (HLC)
- (3) Library staff will also be conducting an In-house Survey of Library Users -- First week of November

**UMR**

# **COLLEGE OF ARTS AND SCIENCES**

**UNIVERSITY OF  
MISSOURI-ROLLA**

## COLLEGE OF ARTS AND SCIENCES

- The Campus Performing Arts Series will present the Moscow Chamber Orchestra at 8 p.m., Wednesday, November 8, in Leach Theatre. First called "the greatest chamber orchestra in the world" by Dmitri Shostakovich, the Moscow Chamber Orchestra will celebrate its 50th Anniversary in 2006. The Orchestra's present Music Director, American pianist/conductor Constantine Orbelian, was awarded the title "Honored Artist of Russia" by President Putin in 2004. The performance is supported in part by the Maxwell C. Weiner Endowment for the Performing Arts. Don't miss it!

## **COLLEGE OF ARTS AND SCIENCES**

- Curators' Professor Don Madison has been selected to be the Foundation Speaker for the 60<sup>th</sup> annual meeting of the Gaseous electronics Conference (GEC) to be held in Washington, DC in October 2007. The GEC annual Foundation Talk is a plenary lecture given each year by a researcher chosen for significant and sustained contributions to the field.
- UMR will host the Expanding Your Horizons conference for 7<sup>th</sup> and 8<sup>th</sup> grade young women on Friday, November 3. Attendees will spend the day participating in hands-on workshops, networking with other young women interested in science and math, and learning about career opportunities for women in mathematics, engineering, and science. The one-day conference will feature a keynote speech by UMR Chemical Engineering graduate Lynn Flaim, HR and Professional Services Sourcing Director from DuPont. Over 400 young women are scheduled to attend.



**UMR**

# **SCHOOL OF ENGINEERING**



**UNIVERSITY OF  
MISSOURI-ROLLA**



- The Academy of Engineering Management voted to support the Chancellor's initiative for a name change and pledged \$5K toward a fund to help defray costs of the implementation.



**UMR**

**SCHOOL OF MATERIALS,  
ENERGY AND EARTH  
RESOURCES**



**UNIVERSITY OF  
MISSOURI-ROLLA**

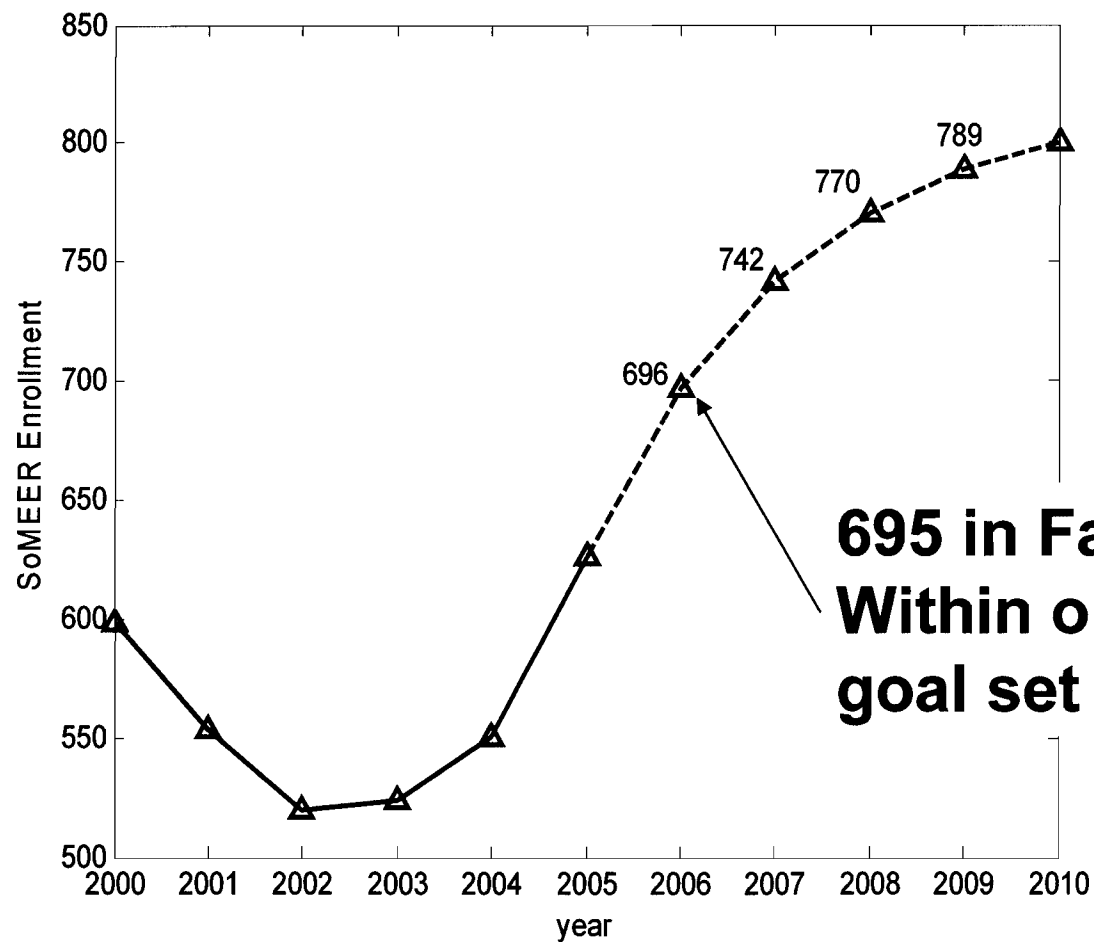
# Enrollment Trends

- SOMEER degree programs

	<b>FS 2002</b>	<b>FS 2003</b>	<b>FS 2004</b>	<b>FS 2005</b>	<b>FS 2006</b>
Cer E	74	68	64	76	87
Geol E	55	48	49	51	50
Geo/GeoP	83	73	84	88	68
Mat E				13	17
Met E	94	90	75	74	82
Min E	58	55	71	92	87
Nuc E	45	54	77	97	102
Pet E	27	28	23	30	37
Fresh & Und*	84	108	108	105	165
<b>Total</b>	<b>520</b>	<b>524</b>	<b>551</b>	<b>626</b>	<b>695</b>

**UMR growth ~5%   SoMEER growth ~11%**

Goal for 2010: 800 students



**695 in Fall 2006**  
**Within one student of**  
**goal set last year!**

# Research

- FY 06 SoMEER proposals awarded by 9/30/05

\$2,343,000

- FY 07 SoMEER proposals awarded by 9/30/06

\$2,702,000

Up 15% over last year

# 2005 Teaching Excellence

## Outstanding Teaching Awards

- Jeff Cawlfeld
- Greg Hilmas
- David Van Aken
- Kent Peaslee
- Gary Mueller
- Jeff Smith
- Larry Grayson

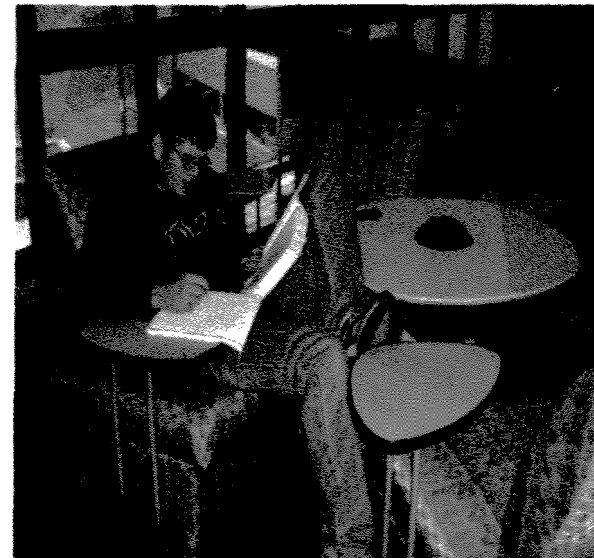
This is Gary Mueller's 13<sup>th</sup> consecutive OTA

# McNutt Commons Furniture



**M&M Academy Contribution  
since April to cover costs of  
new furniture:**

**\$30,750**



The Academic Freedom and Standards Committee recommends to the Academic Council the following changes to the Student Academic Regulations:

(inserted) (deleted)

III. C. Prerequisites. Students will not be admitted to any course (except as a "hearer") unless he/she has fulfilled all of the prerequisites or co-requisites stated in the catalog, or have obtained permission of the instructor to waive the prerequisites or co-requisites for the course.

Petition forms are available from the Office of the Registrar. A course in which the student earned an "I" grade cannot be used for the purpose of satisfying prerequisites.

#### . Changes in Schedule

##### A. Procedure for Dropping or Adding a

Course. No change of any sort in an approved schedule will be considered official unless made through the Office of the Registrar and recorded in that office. If a student wishes to make changes in his/her schedule, they must consult the Office of the Registrar for the proper forms and procedures.

1. If a student wishes to add a course to his/her schedule during the first two weeks (first week of an eight-week summer session) of a semester, he/she must receive the permission of his/her advisor and the instructor of the course.

From the third through sixth week

(second and third week of an eight-week summer session), the student must

receive the permission of his/her advisor, the instructor of the course and the chair of the department teaching the course.

Students may not add lecture, recitation or laboratory courses after the sixth week (third week of an eight-week summer session) of the semester.

2. If a student wishes to drop a course from his/her schedule, he/she must consult with his/her academic advisor and the instructor in charge of the course.

Detailed instructions are available on the ADD/DROP form provided by the Office of the Registrar. A copy of this form is returned to the department by the Office of the Registrar after the drop slip is processed. Permission to drop a course will not be given until all laboratory or other equipment has been checked in to appropriate persons, nor until lockers and other storage space have been vacated. A student may also be dropped by the instructor if he/she does not have the prerequisites for the course, and did not obtain permission from both the chair of

the department concerned and his/her academic advisor to waive the

prerequisites. (Prerequisite Waiver forms are available in the Office of the Registrar). In all such cases the instructor shall notify the Office of the Registrar in writing. The



Registrar shall change the student's official schedule accordingly and will then notify the student.

The Academic Freedom and Standards Committee has reviewed the following proposed procedure and finds it acceptable:

#### Procedures for Prerequisite Checking

Proposed by Office of the Registrar  
October 27, 2006

Each academic department which offers courses will contact the Office of the Registrar and make arrangements to have the prerequisites checked for their course offering. The Office of the Registrar will update the student system as requested.

The Office of the Registrar will send to each academic department that has course prerequisites checked, two weeks prior to classes beginning, and during the first week of classes, a report listing the students that do not have the required prerequisites for a class.

The chair of the department will work with the students and the instructors to determine who should be dropped from the course due to lacking the necessary prerequisites. The department chair or the instructor should send notification to the Office of the Registrar to

drop a student. Prior to the start of classes the department chair will notify the students. After classes begin, the Office of the Registrar will notify the student, and determine the appropriate refund amount.

The Academic Freedom and Standards Committee recommends to the Academic Council the following changes to the Student Academic Regulations: (Insertions, ~~Deletions~~)

### III. C. Schedules – Prerequisites.

Students will not be admitted to any course (except as a "hearer") unless he/she has fulfilled all of the prerequisites or co-requisites stated in the catalog, or have obtained permission of the instructor to waive the prerequisites or co-requisites for the course. ~~Petition forms are available from the Office of the Registrar.~~ A course in which the student earned an "I" grade cannot be used for the purpose of satisfying prerequisites.

### IV.A.2 Changes in Schedule

If a student wishes to drop a course from his/her schedule, he/she must consult with his/her academic advisor and the instructor in charge of the course. Detailed instructions are available on the ADD/DROP form provided by the Office of the Registrar. A copy of this form is returned to the department by the Office of the Registrar after the drop slip is processed. Permission to drop a course will not be given until all laboratory or other equipment has been checked in to appropriate persons, nor until lockers and other storage space have been vacated. A student may also be dropped by the instructor if he/she does not have the prerequisites for the course. ~~and did not obtain permission from both the chair of. The department concerned and his/her academic advisor to waive the prerequisites. (Prerequisite Waiver forms are available in the Office of the Registrar).~~ In all such cases the instructor shall notify the Office of the Registrar in writing. The Registrar shall change the student's official schedule accordingly and will then notify the student.

The Academic Freedom and Standards Committee has reviewed the following proposed procedure and finds it acceptable:

### Procedures for Prerequisite Checking

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The chair of the department will work with the students and the instructors to determine who should be dropped from the course due to lacking the necessary prerequisites. The department chair or the instructor should send notification to the Office of the Registrar to drop a student. Prior to the start of classes the department chair will notify the students. After classes begin, the Office of the Registrar will notify the student, and determine the appropriate refund amount.

**Constitution and By-Laws for Students Today, Alumni Tomorrow**  
A MSM-UMR Student Alumni Association  
University of Missouri-Rolla

Created: September 28<sup>th</sup>, 2006

Approved: November 8<sup>th</sup>, 2006

**Preamble**

We the members of Students Today, Alumni Tomorrow in conjunction with the MSM-UMR Alumni Association will strive forward the interests of the students and foster a lasting relationship among our members, the student, and the campus which will carry throughout their years as an alumnus.

**Article I – Name**

This organization will be known as Students Today, Alumni Tomorrow at the University of Missouri-Rolla, hereafter referred to as STAT-UMR. This organization is in affiliation with the MSM-UMR Alumni Association. STAT-UMR will have no designated insignia, but will be recognized by the STAT-UMR logo.

**Article II – Mission Statement**

The purpose of STAT-UMR is to promote and inform the MSM-UMR students of the objective and benefits of the MSM-UMR Alumni Association, and to maintain and build relationships with current and future alumni. A secondary intent is to foster a sense of pride in UMR which will keep students involved following their departure after commencement.

**Article III – Membership**

**Section I.** The regular membership of STAT-UMR shall be open to University of Missouri-Rolla students, graduate or undergraduate, who meet eligibility requirements for participation in extra-curricular activities set by the University. The regular members, who are in good standing with STAT-UMR, shall have the right to vote or hold office.

**Section II.** Associate membership of STAT-UMR shall be open to all UMR faculty, staff, or alumni who are interested in the organization. Associate members shall not have the right to vote upon items of business at regular meetings or hold office.

**Section III.** Membership selection may not discriminate on the basis of race, gender, national origin, ethnicity, age, religion, sexual orientation, disability, or veteran status.

**Section IV.** Regular membership will take effect when the interested party pays dues, designating the member with good standing.

**Section V.** Regular members shall be free to invite guests to any regular meetings of STAT-UMR.

**Section VI.** Members may be removed via a two thirds majority vote of the membership.

## **Article IV – Executive Officers**

**Section I.** Only regular members in good standing with STAT-UMR have the right to hold or run for office.

**Section II.** The officers of STAT-UMR shall be President, Vice President, Secretary and Treasurer. These officers shall be regular members in good standing with the University of Missouri-Rolla and the MSM-UMR Alumni Association. These officers shall also meet all of the requirements of the UMR Student Code of Conduct with regards to holding an office. The Executive Committee will consist of the officers along with the standing committee heads designates in Article VII Section II.

**Section III.** The duties of the Executive Officers shall be as follows:

**A. President:** It shall be the duty of the President to preside over all regular meetings, and administer all business concerning the organization. The President shall be responsible for the proper functioning of all committees. He/She shall act as a liaison between membership and external organizations. The President shall represent STAT-UMR at conferences, student government meetings, and faculty meetings.

**B. Vice-President:** It shall be the duty of the Vice President to assist the President in the duties of his/her office and to preside over the meetings in his/her absence. Committees and thus committee chairs created hereafter will report to the Vice President.

**C. Secretary:** It shall be the duty of the Secretary to keep minutes of all business sessions and distribute them to all regular members if deemed necessary by the Executive Officers. The Secretary shall maintain the membership list and he/she is responsible for communication of information to members.

**D. Treasurer:** It shall be the duty of the Treasurer to manage all money collected and disbursed as well as the financial records for said transactions. The Treasurer shall be responsible for the regular collection of dues from members as deemed necessary. He/She is responsible for documentation of all income and expenditures in partnership with the university and for the organization and oversight of all fundraising.

**Section IV.** Committees may be created on both a temporary and/or permanent basis. Committees will be utilized to manage both STAT-UMR events and fundraisers. Committees will consist of one (1) committee chair and at least two (2) committee members. Committees may also be formed to tackle a project or other irregular item. Committee members will serve on a volunteer basis.

**Section V.** Executive Committee officers shall be elected in the following manner:

**A.** The election of officers shall be held bi-annually in a business meeting of the regular meetings. The term for elected officers shall be one (1) semester in duration.

**B.** The election meeting shall be the first business meeting of the Academic Semester.

**C.** Any regular member of STAT-UMR may campaign or be nominated for any position on the Executive Committee.

**D.** The candidate present for each office receiving a plurality vote of regular members at the elections meeting will be considered the victor.

**E.** New officers begin their term at the beginning of the academic semester and compete a one (1) semester term.

#### **Article V – Advisor**

**Section I.** A full time University of Missouri-Rolla faculty or staff member will serve as an advisor to STAT-UMR.

**Section II.** The advisor shall be invited and appointed by the Executive Committee based on a majority vote.

**Section III.** The advisor will serve for a period of two (2) years. After this period of service expires, he/she shall have the opportunity to serve another two-year term. No term limit is to be imposed.

**Section IV.** The duties of the Advisor include meeting with the STAT-UMR organization officers, signing all required paperwork, promoting the organization whenever possible, and advising regular members on: issues of risk management, organization leadership, and University of Missouri-Rolla policy.

**Section V.** If the advisor is not meeting requirements of his/her position, he/she may be removed by a majority vote of the Executive Committee, see Article IV.

**Section VI.** If an advisor is removed or resigns, the Executive Committee will follow the process stated in Article V Section II.

#### **Article VI – Meetings**

**Section I.** Business meetings of regular members shall be held at such intervals and at such times as determined by the executive committee. Executive officers and/or advisor will arrange accommodations which may include location, speakers, equipment, and food.

**Section II.** An amendment to the constitution may be passed in regular meetings of STAT-UMR and will require a two thirds majority vote. Please see Article X, Section II for additional guidelines.

**Section III.** Executive Committee meetings are held for the officers and advisors to discuss STAT-UMR issues and to prepare for upcoming events. Executive Committee meetings are held when deemed necessary by the President of STAT-UMR and/or the advisor.

**Section IV.** Committee meetings are for Executive officers and committee heads and committee members to discuss necessary orders of business. Committee meetings shall be called anytime by either the Executive committee or by a committee head.

#### **Article VII – Committees**

**Section I.** The standing committees shall be the Homecoming Committee, Athletic Support Committee, Professional Contact Committee, and Executive Committee.

**Section II.** Duties of the Standing Committees:

**A.** The Homecoming Committee shall be responsible for establishing, scheduling, coordinating, and overseeing student involvement in Homecoming activities promoted by the MSM-UMR Alumni Association.

**B.** The Athletic Support Committee shall be responsible for establishing, scheduling, coordinating, and overseeing student involvement in UMR Athletic Program events.

**C.** The Professional Contact Committee shall be responsible for putting alumni and current students of the University of Missouri-Rolla in contact for the purpose of improving the co-op, intern, and/or college experience.

**D.** The Executive Committee shall be responsible for the general supervision of the business of the entire organization. This Executive Committee shall consist of the Advisor, President, the Vice President, Secretary and Treasurer.

**Section III.** Special Committees shall be established and appointed by the President when considered advisable by the Executive Officers, in coordination with the guidelines in Article IV, Section IV.

#### **Article VIII – Dues**

**Section I.** The Executive Officers shall set the amount of dues at the beginning of the fall semester each year.

**Section II.** Dues will be paid once a reoccurring yearly basis per member.

#### **Article IX – Rules and Regulations**

**Section I.** STAT-UMR shall abide by all University of Missouri-Rolla rules and all state laws. STAT-UMR shall not create any rules, policies, or practices that violate the laws of the state or the rules of the University.

**Section II.** Regular members of STAT-UMR shall comply with the standards set forth by the University of Missouri-Rolla for students and faculty.

**Section III.** Statement on hazing: No hazing shall be approved or tolerated by regular members. Incidents of hazing within STAT-UMR will be subject to immediate removal from the organization and disciplinary action by the University.

#### **Article X – Constitution**

**Section I.** Adoption:

**A.** The Constitution shall be approved by the Student Affairs Committee.

**B.** The Constitution shall be approved by the Academic Council.

**C.** The Constitution shall be ratified by two-thirds vote of the regular members of STAT-UMR.

**Section II.** Constitutional Amendments:

**A.** Amendments to the Constitution shall be submitted in writing to the Executive Committee for consideration. A reading of the proposed amendment is required prior to submitting the amendment to a vote.

**B.** Amendments will be introduced by the highest ranking officer present at a regular or special meeting.

**C.** Written or verbal notification to regular members must be provided at least one week in advance of voting on any proposed changes in the constitution.

**D.** A vote for approving an amendment must be taken within two weeks after it has been introduced.

**E.** A two-thirds vote of regular members present is required for the adoption of the amendment. At least 70% of all regular members must be present at the time of vote.

**F.** All amendments to this Constitution are subject to the approval of the Academic Council, Student Affairs Committee, and/or their designee.

#### **Article XI - By-Laws**

**Section I.** By-laws are defined as matters that will be subject to frequent revision.

**Section II.** By-laws may be considered after the highest ranking officer has announced that the floor is open to by-law submittal.

**Section III.** Any member can request a by-law by submitting a request in writing to the Executive Officers.

**Section IV.** By-laws shall be filed with the Office of Student Affairs upon ratification.



**Volume XXXVII, Number 2**  
**Minutes of the Academic Council Meeting**  
**October 12, 2006**

**I. Call to Order, Roll, and Approval of Minutes**

The meeting was called to order at 13:30 by President Kurt Kosbar and roll was taken. The following absentees were noted: Stanley Woronick, Joseph Herdade, Maggie Cheng, Mark Mullin, Robert DuBois, Mohamed Abdelsalam, Paul Worsey, Gary Mueller, H. L. Tsai, Morris Kalliny, Caroline Fisher, and William Schoenberg. The following substitutions were noted: Robert Laudon for Shari Dunn-Norman and Roger LaBoube for D. J. Belarbi

The meeting minutes of September 7, 2006 were **approved** as submitted.

**II. Campus Reports and Responses**

**A. Presidents Report – Kurt Kosbar**

a. Campus Reorganization – Five committees were formed, and Academic Council was invited to send one representative to each committee. RP&A elected the following slate of representatives:

- Financial Activities Committee – Don Myers, Chair, Budgetary Affairs Committee
- Personnel Recommendations Committee – Robert Dubois, former Chair, Personnel Committee
- External Functions and Activities – Lance Haynes, Chair, Academic Standards and Freedom Committee
- Administrative Committee – Richard DuBroff, Chair, Graduate Faculty
- Steering Committee – Kurt Kosbar, President, Academic Council

b. UMR Bylaw Revision Committee – The Academic Council is forming an Ad hoc committee to rewrite these sections to accommodate the elimination of schools and colleges. The committee has not been formed as of yet, but Doug Carroll, Parliamentarian for Academic Council has agreed to chair this committee and we are looking for volunteers to be on this committee.

c. Intercampus Faculty Council Report – There are three subcommittees to look at the topics listed below:

- Assessment and Accountability: UMR Representative: Bob Schwartz
- Personnel Issues: UMR Representative: Frank Blum
- Administrative Policy: UMR Representative: Kurt Kosbar

**B. Chancellor's Report – John Carney III**

a. Chancellor Carney reported on the financial status of the funding of Toomey Hall construction, emphasizing his desire to avoid bonding.

*“The Academic Freedom and Standards Committee recommends to the Academic Council deletion of the provisions related to instructor drops and suspensions for unsatisfactory work from the UMR Student Academic Regulations.”*

Motion was **voted** and **passed** by acclamation. The Academic Council elected not to specifically state which sections of the Student Academic Regulations must be altered, preferring to leave those details up to the individuals who most closely work with the regulations. It was also noted that once the changes have been made, it would be most helpful if the Registrar could forward the Academic Council a copy of the new regulations, with the changes highlighted.

#### **C. HLC Self Study Committee – Robert Schwartz**

a. Schwartz presented an overview of the accreditation process and the committee’s preparation schedule. The committee members are: Eddie Grover-Bisker (Project Coordinator), Harvest Collier, Ralph Flori, Amy Gillman, Jay Goff, Robert Schwartz, Caroline Fisher, Henry Wiebe, Larry Gragg, Laura Stoll, and Emily Peterson. Details can be found at: [http://campus.umn.edu/acadcoun/archive/minutes/Attachments\\_to\\_Minutes/Self Study AC Presentation.ppt](http://campus.umn.edu/acadcoun/archive/minutes/Attachments_to_Minutes/Self_Study_AC_Presentation.ppt)

#### **IV. Old Business**

##### **A. Report on Current Referrals and Actionable Items**

Kosbar reported the status of current referrals and actionable items.

#### **V. New Business and Announcements**

##### **A. New Referrals**

None

##### **B. Announcements**

Blum gave the Academic Council highlights of the Missouri Association of Faculty Senates meeting he attended on October 10, 2006.

The meeting was adjourned at 14:25.

Respectfully Submitted,

Eun Soo Park  
Secretary, Academic Council

# Organizational Restructuring Plan

## Organizational Restructuring Plan

Dear Colleagues:

I have met many faculty and staff members and students during my visits to academic and administrative units, in meetings, in the Havener Center, and elsewhere in my first six weeks on campus. I was excited about joining UMR before my arrival and my excitement hasn't diminished!

One of the first assignments that I received from Chancellor Carney was to plan and implement the conversion to a "zero schools" organizational structure. The term "restructuring" seems to have been adopted as the term to define this major change.

I know most—if not all—of the UMR family is wondering how and when we will accomplish the changes. My purpose in writing is to lay out the plan that we will follow in accomplishing our planning for the restructuring.

I asked each of the academic department chairs and deans to offer suggestions for how the activities and functions currently accomplished in the deans' offices should be realigned. After reading those suggestions, it appeared that five smaller committees, rather than one very large committee, could better perform the planning-for-change function. Thus, I have established four planning committees and a fifth committee to provide oversight and coordinated guidance (a steering committee). The four planning committees and their summary purpose are:

- The **Financial Activities Planning Committee** will review the budgeting and financial transaction activities currently performed in the deans' offices and recommend where and how those activities should be performed when the new organizational structure is in effect.

- The **Personnel Resources Planning Committee**, through close coordination with the other planning committees, will identify the personnel positions required to accomplish those financial, administrative, academic, and outreach responsibilities and activities identified by the other committees as being essential and needed.

- The **External Functions and Activities Planning Committee** will identify outreach and relations activities with individuals, organizations, and companies external to the university which will continue to be beneficial to the university and recommend how those activities will be performed.

- The **Administrative Planning Committee**, comprised of at least two subcommittees (Academic Subcommittee and Non-Academic Subcommittee), to identify all deans' office activities other than finance, personnel, and external relations which will have a continuing need and to recommend where and how those activities are to be performed.

- A fifth committee (**Steering Committee**) will be responsible for providing oversight, coordination, and guidance to the various planning committees.

I have appointed several persons to each of the planning committees: one of the academic deans, an associate dean, a representative from Academic Council, a representative from Staff Council, one staff member from a dean's office, and an academic department chair. I have also appointed appropriate representatives from UMR's non-academic administrative divisions who will serve as resource consultants. Each committee may add additional persons as necessary.

All committee meetings will be open to the public. The only exception to the open meeting rule will be if the Personnel Resources Planning Committee needs to discuss sensitive personnel matters.

There will be a Restructuring Planning Website, which can be accessed from the Provost's Website. Each committee will have its own page where it will post meeting information and summaries of each past meeting. These pages and links will be operational this week.

The planning committees will submit their respective tentative recommendations to the Steering Committee by the target date of October 27. The Steering Committee will return its comments to the planning committees by



# **UMR's Accreditation Self-Study**



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# **UMR NCA History and Status**

**NCA – North Central Association**  
**HLC – Higher Learning Commission**

- **Current Accreditation Status: Accredited (since 1913)**
- **Last Comprehensive Evaluation: 1998 – 1999**
- **Next Comprehensive Evaluation: 2008 – 2009**



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# **Accreditation Process & Requirements Have Changed**

- New criteria effective 2004-2005
- UMR is among the first wave of institutions to be evaluated using new criteria
- Previous self-studies were snapshots of the past 10 years
- Now, we must show how UMR is poised for the future
- Experience from 1998 self-study and site visit, while helpful, cannot be duplicated



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# What is the Value of Accreditation?

- Reflection of entire campus (all departments, committees, groups, etc.) perspective on themes:
  - Future Oriented
  - Learning-Focused
  - Connected
  - Distinctive
- Our most definitive approach to global continual improvement in UMR's history



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# UMR Steering Committee

<b><i>Eddie Gover-Bisker</i></b>	Project Coordinator
<b><i>Harvest L. Collier</i></b>	Vice Provost, Undergrad. & Grad. Studies
<b><i>Ralph E. Flori Jr.</i></b>	Asst. Dean of Eng., Interdisciplinary Eng.
<b><i>Amy M. Gillman</i></b>	Asst. to the Vice Provost, Undergrad & Grad Studies
<b><i>Jay Goff</i></b>	Dean, Enrollment Management
<b><i>Larry Gragg</i></b>	Professor & Chair, History & Political Science
<b><i>Emily Petersen</i></b>	Acting Director, Inst. Research & Assessment
<b><i>Jinny Ryle</i></b>	Exec. Staff Assistant II, Office of the Provost
<b><i>Lee W. Saperstein</i></b>	Professor, Mining & Nuclear Engineering
<b><i>Robert W. Schwartz</i></b>	Professor, Materials Science & Engineering
<b><i>Henry Allen Wiebe</i></b>	Dean, School of Extended Learning
<b><i>Laura Stoll</i></b>	Registrar
<b><i>Caroline Fisher</i></b>	Dean & Chair, School of Mgmt. & Info Systems



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# **What Are the Accreditation Criteria?**

## **Five Accreditation Criteria:**

- **Mission and Integrity**
- **Preparing for the Future**
- **Student Learning and Effective Teaching**
- **Acquisition, Discovery and Application of Knowledge**
- **Engagement and Service**

Effective 2004-2005



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# Organization of the Self Study Report

- Five major Criteria
- Each criterion has three Elements:
  - Statement
  - Core Components (21 Total)
  - Examples of Evidence
- Four Categories of Operational Indicators

All examples should be integrated with the UMR Strategic Plan



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# Example Criterion

## **Criterion 3: Student Learning and Effective Teaching**

The organization provides evidence of student learning and teaching effectiveness that demonstrates it is fulfilling its educational mission.

**Core Component 3a:** The organization's goals for student learning outcomes are clearly stated for each educational program and make effective assessment possible.

**Core Component 3b:** The organization values and supports effective teaching.

**Core Component 3c:** The organization creates effective learning environments.

**Core Component 3d:** The organization's learning resources support student learning and effective teaching.



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# How Will the Self Study Be Conducted?

- Customized requests for information will be made to the department chairs, directors, committees and groups.
- Electronic responses input online into repository with links embedded to other documents/websites.
- From the responses collected, the steering committee will complete the self-study report.
- The report will demonstrate UMR's capacity to perform as an institution of higher education in addressing its mission.



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# Benefits of Accreditation

- Institutional Reputation
- Standard of quality
- Incentive for self improvement
- Transferability of credits
- Student access to financial aid



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# Reaccreditation Timeline

- Spring 2006 – Self-Study Steering Committee Appointed
- Fall 2006 & Spring 2007 – Data Collection
- Fall 2007 – Analyze Data & Prepare Draft Self-Study Report
- Spring 2008 – Final Self-Study Report
- Spring 2009 – Evaluation Visit



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<http://accreditation.umar.edu/>

**Questions?**



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## **ACADEMIC COUNCIL (AC) PRESIDENT'S REPORT FOR OCTOBER 12, 2006 AC MEETING**

**Campus Reorganization** Five committees have been formed to address reorganization on campus, regarding the elimination of the school/college structures. The Academic Council supplied one representative to each committee.. Since there was insufficient time to consider this issue at a regular AC meeting, the RP&A committee elected the following slate of representatives:

- Financial Activities Committee – Don Myers, Chair, Budgetary Affairs Committee
- Personnel Recommendations Committee – Robert Dubois, former Chair, Personnel Committee
- External Functions and Activities – Lance Haynes, Chair, Academic Standards and Freedom Committee
- Administrative Committee – Richard DuBroff, Chair, Graduate Faculty
- Steering Committee – Kurt Kosbar, President, Academic Council

**UMR Bylaw Revisions** The UMR bylaws contain numerous references to Deans, schools and colleges. It will be necessary to rewrite these sections to accommodate that elimination of schools and colleges. The AC officers, RP&A committee, and the Provost are discussing how to integrate these efforts in with the reorganization committees.

One concern which needs to be addressed in the bylaws, is how to maintain balance and diversity on committees when the grouping of departments by schools/colleges is no longer an option. In addition to eliminating references to colleges, schools and Deans, we may wish to consider more fundamental structural changes in the nature of the Academic Council and its committee structures.

Those who wish to contribute to this effort are encouraged to contact any of the AC officers.



## REFERRALS

All open, and recently closed, referrals to AC committees are listed below, along with a summary of their status. Additional information on these referrals is available from the AC President, or the Chair of the appropriate committee.

<b>Referral</b>	<b>Committee</b>	<b>Status</b>
Revision of Student Academic Regulations, regarding instructor drops for excessive absences	AC (Motion Passed 5/20/06)	Provost and Chancellor endorsed, Registrar notified faculty and altered Student Academic Regulations, effective fall semester 2006
Revision of Student Academic Regulations, regarding instructor drops for poor performance	Academic Freedom and Standards	Anticipate motion at 10/12/06 AC meeting.
Review of pre-requisite policy and practices	Academic Freedom and Standards	Under review by committee
Faculty/Staff headcounts and demographics	Budgetary Affairs	Under review by committee
Review of procedures associated with graduate and undergraduate certificate programs	Curricula	Verbal summary provided to RP&A, anticipate written report to RP&A soon.
Use of end-of-semester evaluations	Personnel	Under review by committee
Amorous relationship policy	Personnel	Verbal response given at RP&A, and request for additional information from RP&A.
Approval of student organization constitutions	Student Affairs	Under review by committee
Voting of Non-Primary Department Members on T&P	AC	Motion approved by AC on Feb 23, 2006, and forwarded to Provost. Implementation pending
Composition of Campus P&T Committee	Tenure	Committee requested report from administration – awaiting reply.
Non-Tenure Track Faculty		Final NTT document approved at September 2006 IFC meeting.

## INTERCAMPUS FACULTY COUNCIL (IFC) REPORT

The following report is a summary of activities at the September 21, 2006 IFC meeting. The next IFC meeting is scheduled for October 13, 2006. More information on the IFC, and UMR's representatives, appears at the end of this report.

Three subcommittees were formed to look at the topics listed below:

**Committee 1** Assessment and Accountability. UMR representative: Bob Schwartz. This committee will discuss the manner in which we measure our effectiveness as an institution, and may address how this relates to matters which are currently generating attention at the national level (see for example: <http://www.ed.gov/about/bdscomm/list/hiedfuture/reports.html>).

**Committee 2** Personnel Issues. UMR representative: Frank Blum. This committee will discuss a number of issues, including proposed policies on:

- *Amorous relationships* between a supervisor and his/her direct reports. The UM system is considering a policy which would prohibit an individual from entering into an amorous relationship with one of their direct reports. The system already has an anti-nepotism policy which addresses this issue for married couples.
- *Faculty Leave Policy*. There is currently some confusion, and inconsistency, in the way faculty leaves and sabbaticals are handled.
- *Background Checks*. There have been suggestions that the UM system should perform some sort of criminal background check of new faculty hires.
- *Pausing, and extending, tenure clocks*. There have been proposals that all UM system campuses should allow a faculty member to request that the tenure clock be paused, or extended, for certain events – such as family leave. There is also concern that the existing tenure policy is not giving some faculty enough time to fully develop their research programs.

**Committee 3** Administrative Policy. UMR representative: Kurt Kosbar. This committee will review the procedures used at the university to insure compliance with the Office of Management and Budget Circular A-21 ([http://www.whitehouse.gov/omb/circulars/a021/a21\\_2004.html](http://www.whitehouse.gov/omb/circulars/a021/a21_2004.html)), which “describes principles for determining costs applicable to grants...” In addition, the committee will review the switch to an electronic procurement system.

**Decoupling of Educational Fees** Interest was expressed in giving the four UM system campuses the ability to charge different rates for base educational fee. There are already substantial differences in fees between campuses.

**Non Tenure-Track (NTT) Faculty** The final touches were placed on the NTT faculty document. As described in a previous report, this document encourages the consolidation of all full-time ranked NTT faculty positions, into one of a limited number of ranked positions. Bob Schwartz was UMR's representative to the committee which drafted this document. The final report should be available soon on the web at:

<http://www.umsystem.edu/ums/departments/aa/faculty/nontenure.shtml>

**Budget** – Good news – at the present time, it appears there will be no increase in the employee contribution to the health insurance premiums for the next calendar year. There may be a slight increase in the dental insurance premiums. There will also be an employee-funded vision plan offered soon. Details on all these programs will show up in November, during the normal enrollment period for benefits.

**Background on IFC** The IFC is 12 member committee, which three representatives from each of the four campuses: UMC, UMR, UMSL, and UMKC. The three members from UMR are elected annually by the UMR Academic Council, and are traditionally the Past President, President, and President-Elect of the Academic Council. The IFC meets monthly, in Columbia, during the academic year. These meetings typically involved a session where the 12 representatives discuss matters between themselves, and are then joined by a variety senior UM System Staff. The meetings typically conclude with a discussion with the UM System President, and the President's staff.

Minutes of past IFC meetings, and other IFC information is available on the web at:

<http://www.umsystem.edu/ums/departments/aa/faculty/council.shtml>

The IFC was created by executive guideline 11, which is documented in the UM System Collected Rules and Regulations, section 20.100. This is available on the web at:

<http://www.umsystem.edu/ums/departments/gc/rules/administration/20/100.shtml>

Faculty who wish to learn more about IFC business, or suggest topics for discussion at IFC are encouraged to contact any/all of the UMR representatives. For the 2006-07 academic year, the UMR IFC representatives are: Dr. Bob Schwartz, Dr. Kurt Kosbar and Dr. Frank Blum (who have jointly prepared this report). Their contact information is given below:

Robert Schwartz, Academic Council Past-President  
222 McNutt Hall  
Phone: 341-6025  
[rwschwar@umr.edu](mailto:rwschwar@umr.edu)

Kurt Kosbar, Academic Council President  
227 Emerson Electric Company Hall  
Phone: 341-4894  
[kosbar@umr.edu](mailto:kosbar@umr.edu)

Frank Blum, Academic Council President-Elect  
138 Schrenk Hall  
Phone: 341-4451  
[fblum@umr.edu](mailto:fblum@umr.edu)

Respectively Submitted,

October 5, 2006

Dr. Kurt Kosbar  
Academic Council President

John F. Carney III  
Academic Council  
October 12, 2006

- ◆ Toomey Hall – MOHELA
- ◆ DC trip, September 12
- ◆ Report to faculty, staff and undergraduate and graduate student leaders, September 12
- ◆ Board of Trustees' and Campaign Steer Committee meetings, September 16
- ◆ Autumn Gala for Student Design and Experiential Learning Center, September 16
- ◆ Tulsa Trip
- ◆ Career Fair, September 28
- ◆ State of the University Open Meeting, October 9
- ◆ Homecoming, October 20-21



**UMR**

# **ACADEMIC COUNCIL REPORT**

**WARREN K. WRAY  
PROVOST AND  
EXECUTIVE VICE CHANCELLOR**

**October 12, 2006**



**UNIVERSITY OF  
MISSOURI-ROLLA**

**UMR**

# **ENROLLMENT MANAGEMENT**

**UNIVERSITY OF  
MISSOURI-ROLLA**

	FR M	FR F	SO M	SO F	JR M	JR F	SR M	SR F	TOTAL UG	MAST M	MAST F	DOCT M	DOCT F	TOTAL GRAD	TOTAL MALE	TOTAL FEMALE	TOTAL YEAR AGO	
ROLLA CAMPUS																		
A&S UND	5	3	7	5	11	2	4	3	40	0	0	0	0	0	27	13	40	51
BIO SC	8	25	13	17	10	15	13	35	136	6	9	0	0	15	50	101	151	137
CHEM	10	7	6	5	5	8	6	9	56	3	3	32	20	58	62	52	114	112
CP SC	57	6	46	5	53	2	72	8	249	57	8	10	4	79	295	33	328	325
ENGL	2	4	3	4	1	3	7	13	37	0	0	0	0	0	13	24	37	40
HIST	6	3	5	7	8	7	18	13	67	0	0	0	0	0	37	30	67	62
MATH	7	6	4	3	9	7	11	5	52	9	3	12	6	30	52	30	82	80
PHIL	0	0	0	0	2	0	1	1	4	0	0	0	0	0	3	1	4	2
PHYS	9	2	7	5	12	3	18	3	59	5	1	16	7	29	67	21	88	85
PSYCH	5	9	5	9	2	12	14	15	71	0	0	0	0	0	26	45	71	72
TECH.COM	0	0	4	0	0	0	0	1	5	0	6	0	0	6	4	7	11	4
A&S	109	65	100	60	113	59	164	106	771	80	30	70	37	217	636	357	993	970
AERO E	0	0	27	8	38	8	60	9	150	19	3	3	1	26	147	29	176	157
ARCH E	0	1	10	8	30	20	41	17	127	0	0	0	0	0	81	46	127	111
CHEM E	2	0	14	9	29	20	32	29	135	8	9	11	5	33	96	72	168	165
CIV E	0	0	17	7	65	14	122	26	251	21	13	15	12	61	240	72	312	321
COMP E	0	1	12	3	40	2	67	5	130	26	6	7	3	42	152	20	172	180
ELEC E	0	0	29	3	71	12	165	12	292	74	19	45	8	146	384	54	438	417
E MGT	2	0	11	2	28	20	54	18	135	34	5	11	6	56	140	51	191	194
E MECH	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1	1
ENGR UND	0	0	1	0	6	0	7	1	15	1	0	0	0	1	15	1	16	19
ENVR E	0	0	1	4	7	5	6	5	28	3	2	0	0	5	17	16	33	38
IND E	0	0	3	2	3	1	1	0	10	0	0	0	0	0	7	3	10	2
MANF E	0	0	0	0	0	0	0	0	15	2	0	0	0	17	15	2	17	16
MECH E	2	0	58	4	132	6	244	26	472	45	5	32	4	86	513	45	558	561
SYS E	0	0	0	0	0	0	0	0	11	7	0	0	0	18	11	7	18	11
FR ENGR	615	130	287	53	42	7	3	2	1139	0	0	0	0	0	947	192	1139	1009
ENGR	621	132	470	103	491	115	802	150	2884	257	71	125	39	492	2766	610	3376	3202
BUS AD	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	1	0
BUS&MS	22	12	15	13	14	18	25	18	137	0	0	0	0	0	76	61	137	126
ECON	2	0	0	1	5	2	4	2	16	0	0	0	0	0	11	5	16	11
IS&T	3	4	12	2	20	3	26	5	75	26	11	0	0	37	87	25	112	110
MGT SYS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
M&IS UND	2	2	2	1	4	1	1	0	13	0	0	0	0	0	9	4	13	16
M&IS	29	18	29	17	43	24	56	25	241	27	11	0	0	38	184	95	279	265
CER E	0	0	9	7	10	7	16	15	64	4	1	14	4	23	53	34	87	76
GEOL E	1	0	4	1	9	0	12	8	35	5	3	6	1	15	37	13	50	51
GEO & GP	4	2	3	2	9	5	9	9	43	9	6	8	2	25	42	26	68	88
MAT E	0	0	0	0	0	0	0	0	8	4	3	2	17	11	6	17	13	13
MET E	0	0	10	3	16	4	26	4	63	9	0	10	0	19	71	11	82	74
M&M UND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIN E	1	0	11	1	16	1	41	5	76	1	0	7	3	11	77	10	87	92
NUCL E	1	0	13	3	31	4	31	9	92	5	0	4	1	10	85	17	102	97
PETR E	0	0	7	0	9	0	9	1	26	8	1	2	0	11	35	2	37	30
FR ENGR	85	23	40	9	5	2	1	0	165	0	0	0	0	0	131	34	165	105
MEER	92	25	97	26	105	23	145	51	564	49	15	54	13	131	542	153	695	626
NON DG	19	13	0	1	0	0	1	0	34	7	5	0	0	12	27	19	46	38
CAMPUS TOTAL	870	253	696	207	752	221	1168	332	4499	420	132	249	89	890	4155	1234	5389	5101
EXTENDED LEARNING																		
AERO E	0	0	0	0	0	0	0	0	0	1	1	0	0	2	1	1	2	3
CIV E	0	0	0	0	0	0	0	0	0	34	12	1	0	47	35	12	47	47
COMP E	0	0	0	0	0	0	0	0	0	6	1	0	0	7	6	1	7	3
CP SC	0	0	0	0	0	0	0	0	0	4	4	0	0	8	4	4	8	7
ELEC E	0	0	0	0	0	0	0	0	0	4	0	0	0	4	4	0	4	7
E MGT	0	0	0	0	0	0	0	0	0	60	18	8	0	86	68	18	86	100
E MECH	0	0	0	0	0	0	0	0	0	6	0	0	0	6	6	0	6	5
ENVR E	0	0	0	0	0	0	0	0	0	2	0	0	0	2	2	0	2	4
GEOL E	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	1	9
GEO & GP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
GEOTECH	0	0	0	0	0	0	0	0	0	10	1	0	0	11	10	1	11	0
IS&T	0	0	0	0	0	0	0	0	0	12	3	0	0	15	12	3	15	9
MANF E	0	0	0	0	0	0	0	0	0	10	0	0	0	10	10	0	10	14
MECH E	0	0	0	0	0	0	0	0	0	7	1	2	0	10	9	1	10	16
MIN E	0	0	0	0	0	0	0	0	0	16	4	0	0	20	16	4	20	14
PHYS	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1	1
SYS E	0	0	0	0	0	0	0	0	0	172	44	0	0	216	172	44	216	167
NON DG	13	3	0	0	0	0	0	0	16	7	0	0	0	7	20	3	23	78
EXT LEARN TOTAL	13	3	0	0	0	0	0	0	16	352	89	12	0	453	377	92	469	501
UMR TOTAL	883	256	696	207	752	221	1168	332	4515	772	221	261	89	1343	4532	1326	5858	5602

NOTE: 132 CO-OP students are included in the campus total  
16 CDIS students are included in the distance total  
103 EEC students are included in distance total  
977 First-time freshmen are included in the campus total  
266 New transfer students are included in the campus total  
392 New graduate students are included in the UMR total

114 Included one year ago  
40 Included one year ago  
116 Included one year ago  
894 Included one year ago  
314 Included one year ago  
357 Included one year ago



The logo for the University of Missouri-Rolla, consisting of the letters "UMR" in a bold, white, sans-serif font on a black background.

**Rolla Daily News Story, Printed Sept. 27, 2006**

**Defying national trends, UMR enrollment grows 26 percent since 2000**

**by Steve Sowers - Publisher**

With a big boost from the UMR Public Relations Department, I have been able to determine that the University of Missouri-Rolla is experiencing dramatic enrollment growth at a time when student interest in science, computing and engineering has fallen to all-time lows.

UMR officials announced Tuesday that official fall enrollment numbers are up for the sixth consecutive year. A total of 5,858 students are currently enrolled for the fall semester. That figure represents a 4.6 percent increase over last fall's enrollment and a 26 percent growth over the 4,625 students attending UMR in the fall 2000 semester.

More women and under-represented minorities are enrolled in UMR classes this fall as well.

Since 2000, undergraduate enrollment at UMR has grown by 817 students (22 percent) to 4,515, while graduate enrollment has grown by 415 students (45 percent) to 1,343.

"Our plan was to strategically and aggressively grow the enrollment with a more diverse and highly talented student body," says Dr. John F. Carney III, UMR Chancellor. "Over the past years, the UMR community has come together and made tremendous strides in building one of the most engaging student learning environments in the nation. We are very pleased with our enrollment growth and elated with the increasing student success levels."

The logo for the University of Missouri-Rolla, featuring a stylized, dark, curved shape on the right side of the page.

UNIVERSITY OF  
MISSOURI-ROLLA

is growth pattern for UMR, Missouri's premiere technological research university, stands in contrast to market and enrollment data that shows a decline in interest in engineering and related subjects.

Recent reports indicate that less than 5 percent of this year's college bound students were interested in studying engineering. The Engineering Workforce Commission on engineering enrollments shows that nationwide, first-year engineering student numbers have fallen by more than 6,000 students since 2002.

Factors that contribute to the university's consistent growth include a record number of re-enrollment rates among students, growth in graduate and online degree programs, and significant increases in female and minority students. This fall, the university also welcomed the largest freshman class in more than two decades.

The first-time freshman students represent the third-largest class in UMR history. In addition, the school's nationally recognized Freshman Engineering Program has achieved an all-time high enrollment with more than 820 students.

More than 300 of the new freshmen achieved scored in the upper 3 percent nationally on the ACT or SAT entrance exams. The average ACT score for UMR students is now 27.2, the upper 10 percent in the nation.

UMR also achieved record numbers of female and minority students in the student body this fall, with 600 minority, non-Caucasian students enrolled, up from 377 in the fall 2000. The 382 Hispanic and African-American students is a 69 percent increase since fall 2000 and establishes a new school enrollment record.

"The increases in female and minority students is significant and reflects UMR's dedication to the campus diversity initiative," Carney says. "The recent growth shown in these areas points to the excellent support students are receiving from our Women's Leadership Institute and Student Diversity Programs Office. Our campuswide diversity efforts and reputation are attracting these students, even in the face of stiff competition from colleges and universities nationwide."

UMR's online and distance education programs have also grown, doubling in size since 2000. Currently 453 graduate students are completing masters or doctorate degree programs over the internet or at the St. Louis and Ft. Wood education sites.

"The total enrollment growth was planned and executed as part of the university's strategic plan," says Jay Goff, dean of enrollment management at UMR. "Increasing the returning student success levels was key to our expansion plans."

Another core element of UMR's recruitment and retention efforts has been to target prospective students who are likely to succeed at the university. UMR has achieved a 87 percent student retention rate. The student success rates at Rolla are among the highest in Missouri and the Midwest

## Rolla Daily News Story, Printed Sept. 27, 2006, cont.

Because of UMR's heavy science and engineering focus, the university has always had an uphill battle in retaining students. A 2001 Center for Institutional Data Exchange and Analysis report estimated that 31 percent of all US students enrolled in mathematics, engineering, technology or science (METS) either transferred to a non-METS degree or dropped out of school completely.

"All of our prospective student communications place a large emphasis on the success of our students and the benefits of our interactive campus experience, but most students focus on the outcomes achieved by our graduates," says Lynn Stichnote, UMR director of admissions.

A UMR 2005-2006 graduate survey indicates that around 95 percent of last year's graduates are either employed or pursuing additional education. The average starting salary for the responding new graduates was more than \$51,000.

The six-year enrollment boom has occurred across campus, not just in UMR's engineering programs. More than 24 percent of the enrollment increase can be attributed to UMR's expanded degree offerings. There are currently 1,296 students enrolled in the university's 14 business, information science and technology, natural and social science programs.

## Rolla Daily News Story, Printed Sept. 27, 2006, cont.

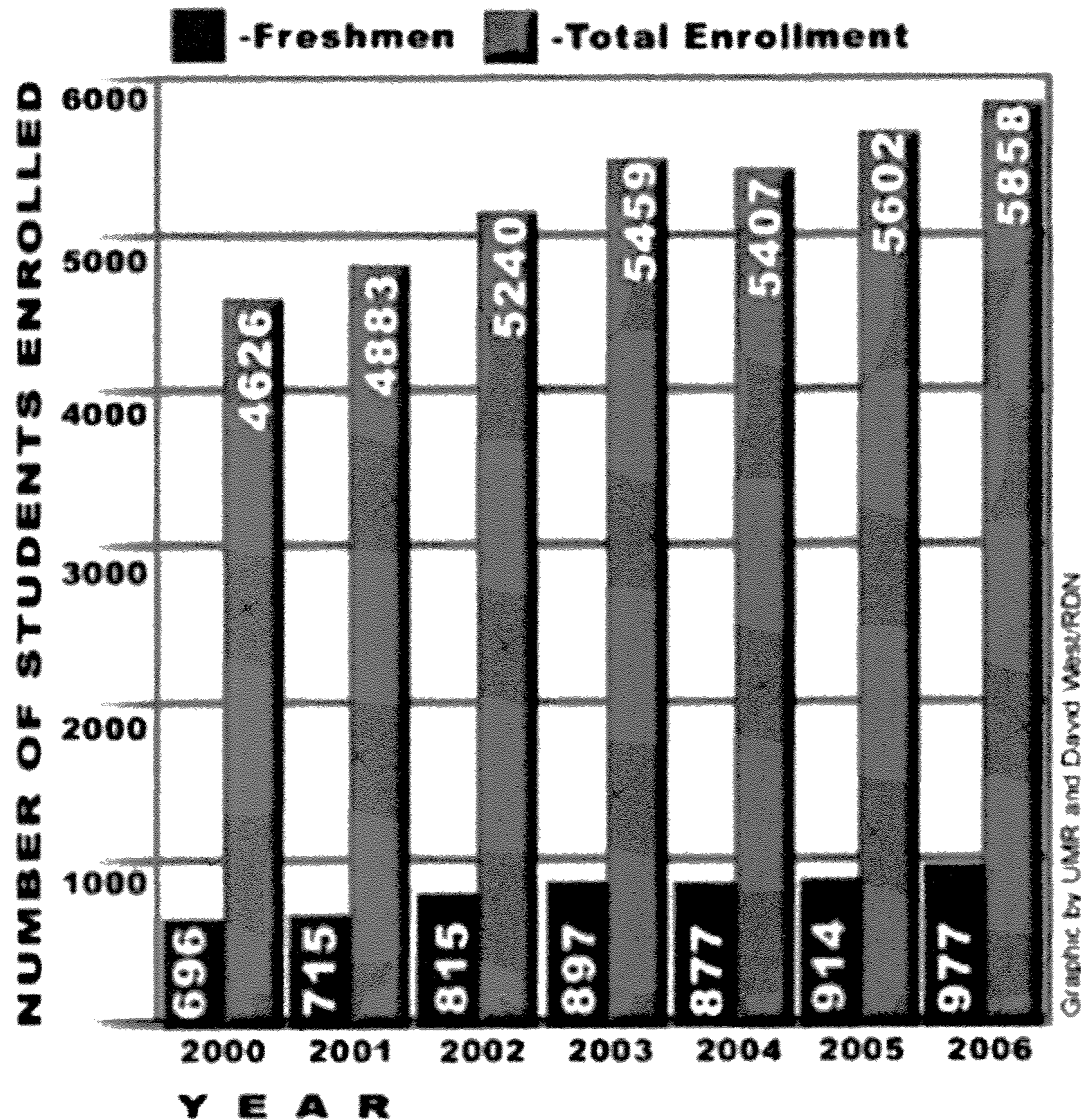
"Like most of the nation's other technological research universities, students are finding that academic excellence and high technology go hand in hand," Stichnote says. "Studying any field at UMR gives students an edge that they would not find at most colleges. Our academically competitive, tech-savvy atmosphere gives students an advantage, and a professional network, that many companies are seeking in new employees."

UMR remains popular for Missouri students, with 4,076 residents enrolled, reflecting 70 percent of the student body. This fall UMR has students enrolled from 49 states and 51 foreign nations. The international student population is starting recover from the post-September 11 declines that began four years ago. "Recruiting students from across the country and throughout the world is a benefit to the campus community," Goff says. "Exposing our students to people from other parts of the nation and the world adds to our cultural diversity. We believe it is very important for the university to provide an atmosphere that broadens the minds and experiences of our students."

UMR is currently re-evaluating its strategic goals for the next five years. "We believe UMR could still serve additional students, especially additional graduate students, but we do not want to grow to a level that sacrifices the quality of our educational experience," Goff says.

If the university grows by another 2.5 percent next year, it could exceed 6,000 students in the coming years.

## UMR enrollment growth: 2000-2006





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# **RESEARCH**



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# RESEARCH

- Dr. Ray Luechtefeld, Assistant Professor of Engineering Mgt, just received official notification of receiving an NSF CAREER Award. Title: "Development and Evaluation of Portable, Computationally Intelligent Team Training". \$524,624; 5 year award.
- 19 faculty teams will be competing for our 10 plus-up proposal slots. Reviews will be held during the week of October 23rd. An agenda will be published; the reviews are open to all faculty.
- The Governmental Relations Team from the UM System will be here on October 10th to see the latest and greatest research projects and student success stories. Say hi to them if you happen to see them walking across campus.
- Externally sponsored grant expenditures through the end of September stand at \$9.4M.





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# **UNDERGRADUATE AND GRADUATE STUDIES**



**UNIVERSITY OF  
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# Academic Advising Conferences

## Upcoming Events:

- **Oct. 3- Advising 101– The Basics-**  
1:00-2:30 PM, Carver-Turner room,  
Havener Center. Open session/panel  
discussion.
- **Nov. 3- Advising Students on  
Probation- 2:00-3:30 PM** at the  
Havener Center



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# **Advising 101-The Basics**

**October 3, 2006**

**1:00-2:30 PM**

**Carver-Turner Room-Havener Center**

**\* Open Session / Panel Discussion \***

**Panelists:**

Diana L. Ahmad- History & Political  
Science  
Jerry Bayless- School of Engineering  
Harvest L. Collier- UGS, Chemistry  
Cheryl Downey-Eber- UMR Testing  
Services  
Patty Frisbee- New Student Programs  
Dee Montgomery- College of Arts &  
Sciences, Psychology  
Lea-Ann Morton- Career Opportunities  
Center  
Debbie Schatz- Admissions  
Laura Stoll- Office of the Registrar  
Diane Stutts- Counseling & Academic  
Support Programs  
Shevawn Tipton- Office of the Registrar

**Special Topic Areas:**

Advising Undecided Students  
Academic Alert System  
ACT Scores  
CAPS Report / On-Line Educational Records  
Co-Ops / Internships  
Counseling and Academic Support Programs  
Course Scheduling / Course Catalog  
Degree Requirements  
Developmental Advising  
Education Certification  
Expectations of UMR Students  
FERPA requirements  
Instructor Drops for Excessive Absence  
Missouri Residency  
Preview, Registration and Orientation (PRO)  
Repeat Course GPA adjustment  
Roles: Advisors/Advisees  
Substitutions/Waivers  
Testing Services  
Transfer Student Credit



**UNIVERSITY OF  
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# Academic Alert System

FS06 preliminary report (as of 9/27/06):

- **473** academic alerts have been issued to **405** individual students
- #1 root cause= poor performance, #2 root cause=lack of attendance
- **81** instructors have issued alerts
- **139** advisors have been engaged
- <http://campus.umn.edu/acalert/>

# Academic Alert System-Reporting Function

- The Academic Alert System includes an on-line, customized reporting function.
- Departments are encouraged to utilize this reporting function at mid term and at the end of each semester.
- Departments may download customized reports at:  
<http://campus.umn.edu/acalert/>

# Center for Educational Research & Teaching Innovation

CERTI is offering a series of workshops to assist faculty who plan to use clickers in the classroom during the Spring 2007 semester. The first workshop was held Friday Sept. 22. Approximately 15 faculty and staff attended.

Additional workshops include:

- October 27 –**Basic Software Training**
- November 10—**Intermediate Advanced Training**
- December 13—**Final Info/Prep Session**

Times and locations will be announced. For more information contact Angela Perkins at [angelap@umr.edu](mailto:angelap@umr.edu).

# **UMR Honor's Academy**

Upcoming New Student Honor's Seminars:

- October 11-**UMR Research**, 7:00- 8:00 PM, Location TBA
- October 25-**Ultimate Teaching & Learning**, 7:00- 8:00 PM, Location TBA

# **New Faculty Programs**

## **Upcoming Activities:**

- **Freshman Faculty Forum,**  
Oct. 4th- 4-5pm, Silver & Gold Room, Havener Center
- **LEAD Training for Peer Learning Assistants**  
Oct. 1<sup>st</sup>- 7-9 pm, 208 Norwood Hall
- **New Faculty Teaching Scholars Seminar**  
Oct. 11<sup>th</sup>- 12-1 pm, Meramec Room, Havener Center
- **Freshman Faculty Forum**  
Oct. 18<sup>th</sup>- 4-5 pm, Silver & Gold Room, Havener Center



# **UMR Service Learning Program**

The UMR Service Learning Advisory Committee will hold its first meeting of the 2006/07 academic year on Oct. 4, 2006 at 10:00 AM in the Havener Center. The advisory committee was established in the fall 2005 to oversee the development of a campus-wide service learning program.

Last year, the committee was successful at 1) defining service learning for the UMR campus, 2) establishing Guidelines for Academic Service Learning at UMR, 3) identifying UMR courses that offer service opportunities for students, 4) developing a campus web site to house general information and guidance materials for UMR faculty; and 5) drafting a Letter of Understanding and Statement of Service Needs for UMR and its service learning partners. This academic year, the committee will focus on:

- Formalizing the process for establishing academic service learning courses,
- Expanding its offering of guidance materials for faculty, and ,
- Raising awareness about the value of service learning within the UMR curriculum.

The logo for the University of Missouri-Rolla (UMR) is a black triangle pointing downwards, containing the white text "UMR".

**UMR**

# **UM President's Award for Outstanding Teaching 2007**

**UMR CAMPUS CALL FOR NOMINATIONS FOR THE UM PRESIDENT'S AWARD FOR OUTSTANDING TEACHING FOR 2007**

- The Submission Deadline for the UMR Preliminary Consideration is **October 31st, 2006**. Materials must be submitted to **209 Norwood Hall**.
- The Deadline for the Complete Nomination Packages for the Selected UMR Nominee to be submitted to the system-wide competition is **January 31, 2007**.
- Please see: Additional Information on the UM System web site at:  
**<http://www.umsystem.edu/ums/departments/aa/awards/awards2.shtml>**

The logo for the University of Missouri-Rolla is a black triangle pointing upwards, containing the white text "UNIVERSITY OF MISSOURI-ROLLA".

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The logo for the University of Missouri Research (UMR) is located in the top left corner. It consists of the letters "UMR" in a bold, white, sans-serif font, set against a black background that has a diagonal split.

# UM System Undergraduate Research Day at the Capitol

## Call for Nominations for Student Ambassadors

The University of Missouri System is seeking nominations from faculty members for undergraduates to serve as Ambassadors to share their university research experiences with state lawmakers in Jefferson City for Undergraduate Research Day at the Capitol in April 2007.

To qualify for participation in this event, nominees must meet the following criteria:

- Students must be undergraduates at the University of Missouri during the 2006-2007 Academic Year.
- Students must be residents of the State of Missouri.
- Research must have been completed under the guidance of a University of Missouri faculty member.
- Research projects must follow the methodology of the appropriate academic discipline.
- The research project must be of sufficient quality to be presented at a professional academic meeting.

Nominations from the Rolla Campus are due by **December 15, 2006** to:

Dr. Harvest L. Collier, Vice Provost  
Office of Undergraduate and Graduate Studies  
c/o Amy Gillman, Assistant to the Vice Provost, email- [gillman@umr.edu](mailto:gillman@umr.edu)

The logo for the University of Missouri-Rolla is located in the bottom right corner. It features the text "UNIVERSITY OF MISSOURI-ROLLA" in a white, sans-serif font, set against a black background that has a diagonal split, matching the style of the UMR logo.

# Voyager Learning Community

## Upcoming Voyager Seminars:

- Thursday, 10/5/06, 3:00 PM: **“Mid-Semester . . . Are you where you wanted to be?”** – Dr. Patti Fleck, The Counseling Center. This seminar provides an opportunity to review your initial goals, check your progress, and identify desired adjustments to achieve success.
- Monday, 10/16/06 at 3:00 PM& Wednesday, 10/18/06 at 3:00 PM- **“Using Joe’S’S”**- Laura Stoll, Registrar’s Office. Learn how to use Joe Miner Self Service for on-line registration and academic advising resources.
- Tuesday, 10/24/06, 2 sessions offered at 5:00 PM and 7:00 PM, 103 Wilson Library. **“UMR Library @ your Desktop”**-This hands-on workshop will focus on learning how to access the UMR Library's books, journals/magazines, and newspapers from the convenience of your computer.
- Thursday, 10/26/06, 3:00 pm-**“What Does SHS Offer You?”**- Melba Read, Student Health Services (SHS). This session will cover the services offered and ask: What do you want from SHS?



**UMR**

# **SCHOOL OF EXTENDED LEARNING**



**UNIVERSITY OF  
MISSOURI-ROLLA**

# School of Extended Learning

Chancellor's Council Announcement  
October 12, 2006

## International Affairs:

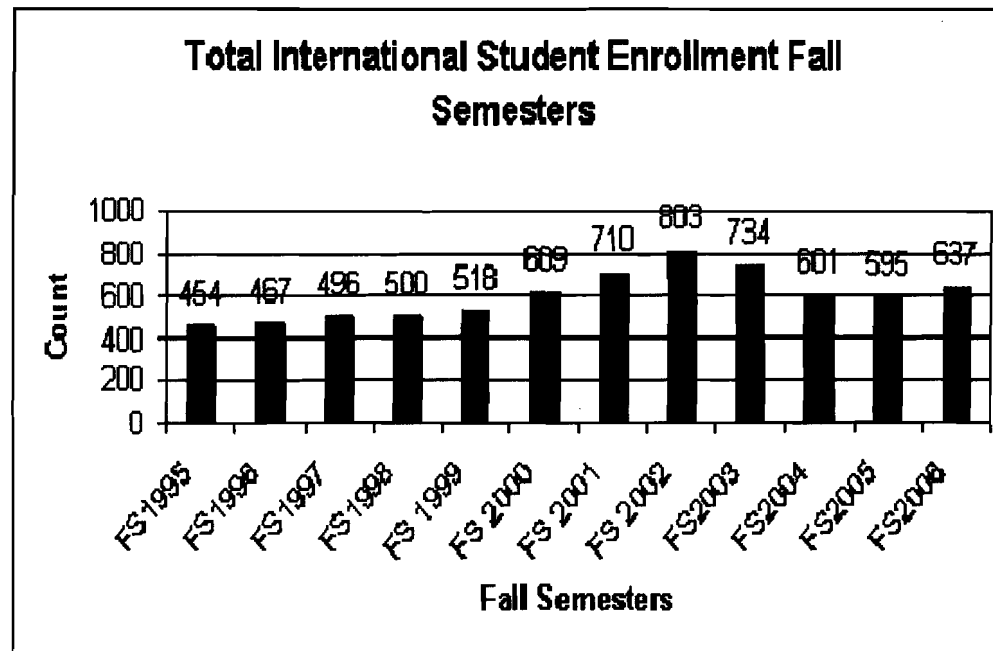
- **International Friends Program** recruitment has started. The International Friends Program matches newly arrived international students with individuals and families in the community. These newly matched friends can share cultures by participating in fun activities and discussions. Applications have been completed and accepted by the Office of International Affairs. Matches will be announced at a reception at the Southwestern Bell Cultural Center, Tuesday, Oct 5. Additional volunteers are welcome.

# School of Extended Learning

- The **Intensive English Program** currently has 44 students enrolled. The countries represented by the students are Italy, Japan, Libya, Saudi Arabia, South Korea, Thailand, and Turkey.
- A “**Communication Partner Program**” is being started within the Intensive English Program. Students in the IEP will be matched with American students attending UMR. Partners will meet on a weekly basis throughout the semester at times that are convenient for the partners. Students will have a chance to share knowledge and learn about each others languages and culture. If you know students who would benefit from participating in this program, please ask them to contact Roberta Morgan, Academic Coordinator of the Intensive English Program [birdie@umr.edu; 341-6147].

# School of Extended Learning

- International enrollment continues to increase as shown in the chart below.





# School of Extended Learning

## Video Communications Center:

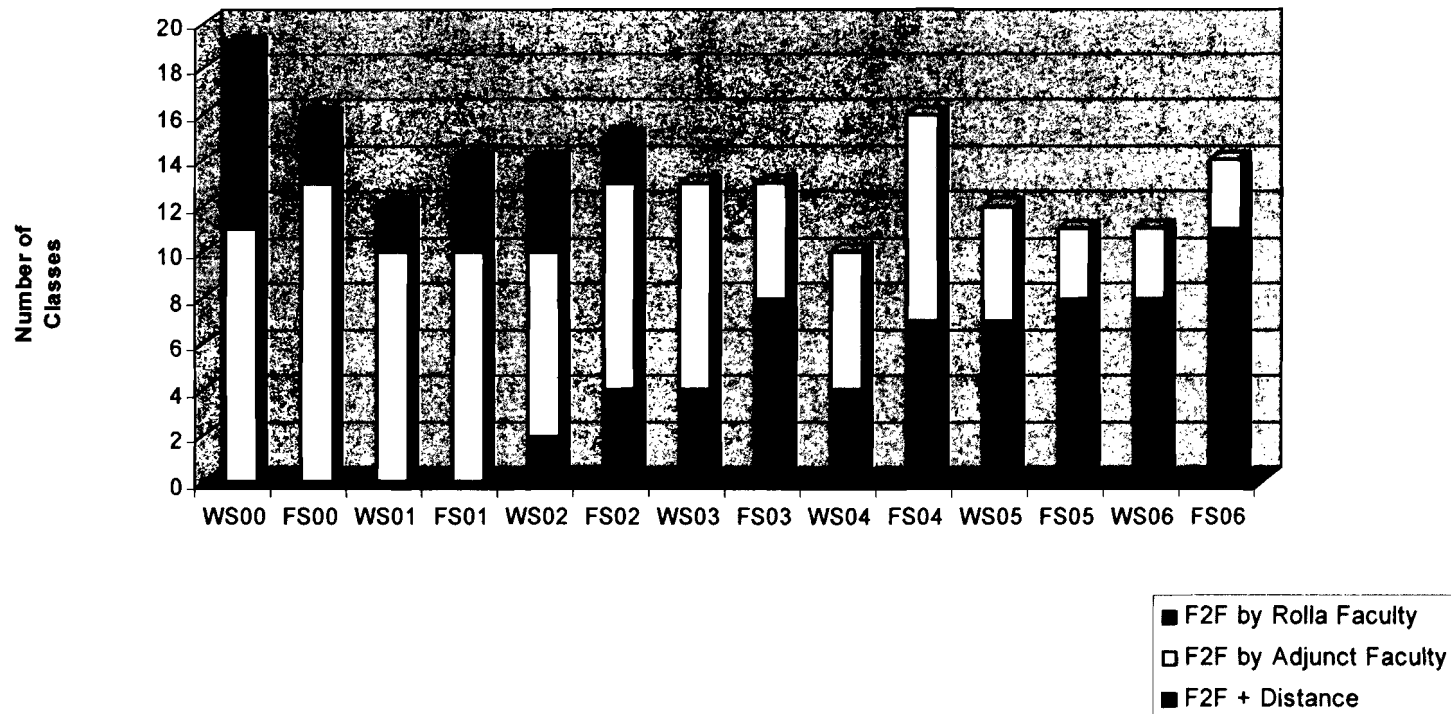
- The VCC is in the process of bringing two additional classrooms on line. It is hoped they will be available by January 2007. The first is room 130 McNutt Hall. This effort consists of adding distance technology to the high tech classroom previously developed with a donation from UMR alum, Robert Brackbill. The second room is a new classroom in the basement of the UMR library. It's location is adjacent to G-11, one of the existing classrooms.

# School of Extended Learning

## Engineering Education Center:

- The graph, on the next page, indicates the changing nature of the Engineering Education Center mission. In the decades of the 70s and 80s it consisted almost exclusively of Rolla faculty driving to St. Louis to teach face-to-face (F2F) courses. Today, more adjunct faculty are used and there is an increasing trend of broadcasting distance courses to the UMR campus where they are used both for on campus students and also rebroadcast for a broader audience throughout the world.

# School of Extended Learning



# **School of Extended Learning**

Distance and Continuing Education:

- Conferences scheduled for fall are in the final stages of preparation and anticipating over 1,000 attendees.
  - Expanding Your Horizons (EYH) -  
550 – November 3, 2006
  - Artificial Neural Networks in  
Engineering (ANNIE) –  
120 – November 6-8, 2006

# School of Extended Learning

- 49<sup>th</sup> Asphalt Conference – 300  
November 28-29, 2006
- UMR/MoDOT Highway Geophysics – 100  
December 4-7, 2006
- Distance and Continuing has again managed a successful series of summer camps with hundreds of potential students being hosted on the UMR campus. These events are a critical element in UMR's recruitment effort and are successful only because of the willing participation of many individuals throughout the UMR community. Thanks to all those who helped. The results of these efforts will be seen walking around the campus this fall and for years to come.



**UMR**

# **INFORMATION TECHNOLOGY**



**UNIVERSITY OF  
MISSOURI-ROLLA**

# Information Technology

UMR ranked among the nation's '25 most connected campuses' by the *Princeton Review* and *Forbes.com*

UMR received CIO Magazine's "CIO 100" award for 2006.

- **Applications/Enterprise Reporting**

- » Planning & design continues to progress for Research Repository
  - Showcase & market UMR Research to internal and external research communities

- **Networks and Computing**

- » Voice-Over IP Telephony Project
  - Over 1000 VoIP phones deployed
  - Custodial/Building and Grounds deployment completed
  - Harris Hall deployment completed
  - Schrenk Hall deployment completed
  - Fulton Hall and the UMR Reactor are scheduled for conversion in October 2006
  - Campus Support Facility scheduled for conversion in November 2006
- » Outdoor Wireless Mesh Pilot with Embarq
  - Providing outdoor wireless coverage for the majority of the campus, including the Miner Recreation Center and athletic fields
- » WindowsLive student e-mail pilot underway

# Information Technology

- **Solutions Center**

- » **Desktop Enhancement**

- **FY2006 over 97% complete with 314 machines deployed**

- » **Technology Classrooms**

- **60% of centrally scheduled classrooms (53 out of 87) will be outfitted with a standard technology package to support multimedia teaching needs during the Fall Semester 2006. The remaining 40% will be completed by the Fall Semester 2007.**

- » **Planning progressing for Enterprise Helpdesk Consolidation Initiative**

- **Project Management**

- » **MinerNet information network pilot in planning stages**

- **Various campus locations will be equipped with multimedia equipment that will allow for the dissemination of student centric information. (Want to know what's happening on campus next week? MinerNet will keep you informed.)**





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Minutes  
Campus Curricula Committee Meeting  
September 26, 2006 Meeting  
12:30 p.m. Room 117 Fulton Hall

Approval of May 02 and August 15, 2006 minutes.

Barry Flachsbart (substitute for Richard Hall), Shannon Fogg, Lance Gentry, Angie Huffman, Irina Ivliyeva, Keith Nisbett, and Jennifer Thorpe attended the meeting. Guests were Henry Wiebe.

**Review of submitted DC forms:**

DC 0202, School of Engineering, Architectural Engineering, approved effective FS2007.  
A proposal to modify the current curriculum for the BS in Architectural by changing History 274 to History 375.

DC 0203, School of Engineering, Environmental Engineering, approved effective FS2007.  
A proposal to modify the current curriculum for the BS in Environmental Engineering by changing the current History 270 requirement to History 270 or History 275.

DC 0205, School of Engineering, Interdisciplinary Engineering, approved effective FS2007.  
A proposal to modify footnote 4 for the BS in Interdisciplinary Engineering to read: English 60, English 160 or SP&M 85. Students may petition to substitute another course dealing with teams/organizational behavior.

**Review of submitted CC forms:**

CC 7058, Mining Engineering 351, Demolition of Buildings and Structures. New course approved effective Spring 2007.

Catalog Description: Provide participants with basics and solid grounding in the equipment, techniques and processes required for the demolition and remediation of mine plant and processing equipment sites and non-mining structures such as buildings, factories, bridges, etc.

Credit Hours: Lecture: 2 Lab: 1 Total: 3

Prerequisites: IDE 50 or 140, and IDE 110 or Min Eng 232, + US citizen or permanent resident. \*Req. due to Safe Explosives Act – Jan 03

CC 7059, Petroleum Engineering 316, Production Applications. The following change is approved effective Spring 2007.

Prerequisites – Present: Pet Eng 131, preceded or accompanied by Civ Eng 230 and Pet Eng 241

Proposed: Preceded or accompanied by Pet Eng 241



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CC 7060, Petroleum Engineering 335, Secondary Recovery of Petroleum. The following changes are approved effective Spring 2007.

Catalog Description – Proposed: Oil recovery by water injection. Effects of wettability, Capillary pressure, relative permeability, mobility ratio on displacement, sweep, and recovery efficiencies. Piston-like permeability, mobility ratio on displacement, sweep, and recovery efficiencies. Piston-like and Buckley-Leverett models. Fractional flow and frontal advance equation. Oil recovery prediction methods for linear and pattern water floods in single and multi-layered reservoirs.

Prerequisites – Present: PE 241, PE 242, ME 227

Proposed: PE 241, PE 242

CC 7061, Petroleum Engineering 320, Fundamentals of Petroleum Reservoir Simulation. The following change is approved effective Spring 2007.

Prerequisites – Present: Cmp Sc 73, Math 204

Proposed: Math 204

CC 7062, Business 400, Special Problems. New course approved effective Spring 2007.

Course Description: Problems or readings on specific subjects or projects in the department.

Credit Hours: Variable 0-6

Prerequisites: Admission to the MBA program.

CC 7063, Business 420, Integrated Business Core. New course approved effective Spring 2007.

Catalog Description: The MBA core areas of management, marketing, operations, accounting, finance, and human resource are integrated using a case study approach with emphasis on enterprise resource planning software. Coverage includes ethical issues, legal environment, and skills development in negotiations, teambuilding, leadership, and communications.

Credit Hours: Lecture: 12 Lab: 6 Total: 18

Prerequisites: Admission to the MBA program and completion of all prerequisites for the program.



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CC 7064, Business 490, Research. New course approved effective Summer 2007.

Catalog Description: The research project will involve students applying research techniques and discipline specific knowledge working on a project designed by the advisor, often working with a business organization. Requires major report and formal presentation to sponsoring organization.

Credit Hours: Variable 0-6

Prerequisites: Bus 420

CC 7065, Business 491, Internship. New course approved effective Summer 2007.

Catalog Description: Students apply critical thinking skills and discipline specific knowledge in a work setting based on a project designed by the advisor and employer. Activities will vary depending on the student's background and the setting. Requires major report and formal presentation to sponsoring organization.

Credit Hours: Variable 0-6

Prerequisites: Bus 420

CC 7077, Engineering Management 408, Advanced Engineering Economy. The following changes are approved effective Spring 2007.

Course Title – Proposed: Financial Risk Management

Catalog Description – Proposed: Techniques and methods for managing financial risk, including portfolio theory, Monte Carlo methods, ARIMA, time series forecasting, Value-at-Risk, stress testing, extreme value theory, GARCH and volatility estimation, random variables and probability distributions, real options, decision trees, utility theory, statistical decision techniques, and game theory.

Prerequisites – Present: EMgt 209 or 308

Proposed: EMgt 308, 352, or equivalent

CC 7078, Engineering Management 480, Investment. The following changes are approved effective Spring 2007.

Catalog Description – Proposed: An introduction to the theory and practice of investment, including financial markets and instruments, security trading, mutual funds, investment banking, interest rates, risk premiums, the capital asset pricing model, arbitrage pricing theory, market efficiency, bonds and the fixed income market, equity valuation, fundamental and technical analysis.

Prerequisites – Present: EMgt 208, or equivalent

Proposed: EMgt 208, 308, 352, or equivalent

CC 7079, Engineering Management 481, Financial Engineering. The following changes are approved effective Spring 2007.

Catalog Description – Proposed: An introduction to financial engineering, with an emphasis on financial derivatives, including the future markets, the pricing of forwards and futures, forward rate agreements, interest and exchange rate futures,



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swaps, the options markets, option strategies, the binomial and Black-Scholes models for option valuation, the option Greeks, and volatility smiles.

Prerequisites – Present: EMgt 480

Proposed: EMgt 308, EMgt 352; EMgt 480 or Sys Eng 480; or equivalent

CC 7080, Environmental Engineering 265, Civil Engineering 265, Water and Wastewater Engineering. New course approved effective Spring 2007.

Catalog Description: A study of the engineering design principles dealing with the quantity, quality and treatment of water, and the quantity, characteristics, treatment and disposal of wastewater.

Credit Hours: 3 hour lecture

Prerequisites: Civ Eng 230 with grade of "C" or better, Civ Eng 261.

Co-listing: Civil Engineering 265

CC 7081, Environmental Engineering 298, Civil Engineering 298, Architectural Engineering 298, Senior Design Project. New course approved effective Spring 2007.

Catalog Description: Open-ended design projects involving one or more areas of engineering. Planning design projects, philosophy of design, and application of engineering principles to design problems.

Credit Hours: 3 hour lecture

Prerequisites: Civ Eng 248 or Arch Eng 248

Co-listing: Civil Engineering 298, Arch Engineering 298

CC 7082, Environmental Engineering 390, Undergraduate Research. New course approved effective Spring 2007.

Catalog Description: Designed for the undergraduate student who wishes to engage in research. Not for graduate credit. Not more than six (6) credit hours allowed for graduation credit. Subject and credit to be arranged with the instructor.

Credit Hours: Variable 0-6

Prerequisites: None

CC 7083, IST 444, Essentials of Data Warehouses. New course approved effective Spring 2007.

Catalog Description: This course presents the topic of data warehouses and the value to the organization. It takes the student from the database platform to structuring a data warehouse environment. Focus is placed on simplicity and addressing the user community needs.

Credit Hours: 3 hour lecture

Prerequisites: IST 223 or CS 304 or equivalent relational database experience.

CC 7086, Computer Engineering 318, Digital System Modeling. The following change is approved effective Spring 2007.

Prerequisites – Present: Cp Eng 111 and Cp Eng 112; or Cp Sc 234



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Proposed: Cp Eng 111 with a grade of "C" or better

CC 7087, Chemical Engineering 470, Civil Engineering 462, Environmental Engineering 462, Physiochemical Operations in Environmental Engineering Systems. New course approved effective Spring 2007.

Catalog Description: Course covers physiochemical operations and design in water, wastewater and aqueous hazardous waste treatment systems including coagulation, precipitation, sedimentation, filtration, gas transfer, chemical oxidation and disinfection, adsorption, ion exchange.

Credit Hours: 3 hour lecture

Prerequisites: CE 230 or equivalent

Co-listing: Civil Engineering 462, Environmental Engineering 462

CC 7088, Interdisciplinary Engineering 202, Cooperative Engineering Training. New course approved effective Spring 2007.

Catalog Description: On-the-job experience gained through cooperative education with industry, with credit arranged through the student's advisor. Grades received depends on the quality of the reports submitted and work supervisor's evaluation

Credit Hours: Variable 0-6

Prerequisites: None

CC 7089, Systems Engineering 408, Engineering Management 408, Financial Risk Management. New course approved effective Spring 2007.

Catalog Description: Techniques and methods for managing financial risk, including portfolio theory, Monte Carlo methods, ARMA, time series forecasting, Value-at-Risk, stress testing, extreme value theory, GARCH and volatility estimation, random variables and probability distributions, real options, decision trees, utility theory, statistical decision techniques, and game theory.

Credit Hours: 3 hour lecture

Prerequisites: EMgt 308, 352, or equivalent

Co-listing: Engineering Management 408

CC 7090, Systems Engineering 410, Seminar. New course approved effective Spring 2007.

Catalog Description: Discussion of current topics.

Credit Hours: Variable 0-6

Prerequisites: None

CC 7091, Systems Engineering 480, Engineering Management 480, Investment. New course approved effective Spring 2007.

Catalog Description: An introduction to the theory and practice of investment, including financial markets and instruments, security trading, mutual funds, investment banking, interest rates, risk premiums, the capital asset pricing model, arbitrage



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pricing theory, market efficiency, bonds and the fixed income market, equity valuation, fundamental and technical analysis.

Credit Hours: 3 hour lecture

Prerequisites: EMgt 208, 308, 352, or equivalent

Co-listing: Engineering Management 480

CC 7092, Systems Engineering 481, Engineering Management 481, Financial Engineering. New course approved effective Spring 2007.

Catalog Description: An introduction to financial engineering, with an emphasis on financial derivatives, including the future markets, the pricing of forwards and futures, forward rate agreements, interest and exchange rate futures, swaps, the options markets, options strategies, the binomial and Black-Scholes models for option valuation, the option Greeks, and volatility smiles.

Credit Hours: 3 hour lecture

Prerequisites: EMgt 308, EMgt 352; EMgt 480 or Sys Eng 480; or equivalent

Co-listing: Engineering Management 481

CC 7093, Systems Engineering 493, Oral Examination. New course approved effective Fall 2006.

Catalog Description: After completion of all other program requirements, oral examination for on-campus MS/PhD students may be processed during intersession. Off-campus MS students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive exam (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

Credit Hours: 0.0

Prerequisites: None

CC 7094, Systems Engineering 495, Continuous Registration. New course approved effective Spring 2007.

Catalog Description: Doctoral candidates who have completed all requirements for the degree except the dissertation, and are away from campus must continue to enroll for at least one credit hour each registration period until the degree is completed. Failure to do so may invalidate the candidacy. Billing will be automatic as will registration upon payment.

Credit Hours: 1 hour lecture

Prerequisites: None

CC 7096, MSE 291, Characterization of Inorganic Solids, effective Spring 2007.  
Withdrawn by department.

**Review of submitted EC forms:**



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EC 1834, Electrical Engineering 401, Signal Integrity, High Speed Digital & RF Design Laboratory, approved effective Spring 2007.

Course Description: High-frequency and high-data rate circuits are impacted by layout and component parasitics that can compromise meeting the design specifications. This is a course designed around laboratory experiments and a semester project that emphasizes practical issues in digital and RF circuit layout and design.

Credit Hours: 3 hour lab

Prerequisites: EE 271

EC 1835, Electrical Engineering 401, Advanced Topics in Optics & Devices, approved effective Spring 2007.

Course Description: Advanced topics of current interest in optics and devices. Selected topics include semiconductor materials, electronic devices, wave-based sensing, fiber optic systems, optoelectronics, and photonic engineering.

Credit Hours 3 hour lecture

Prerequisites: Graduate standing

EC 1836, MSE 301, Energy Materials, approved effective Spring 2007.

Course Description: A survey for cleaner, smaller, cost effective and more efficient energy technologies driven by materials science and engineering. Solar cells, fuel cells, rechargeable batteries, hydrogen storage, capacitors, high-temperature superconductivity. Renewable energy; solar, geothermal, ocean, hydropower, wind, hydrogen, bioenergy, and related term projects.

Credit Hours: 3 hour lecture

Prerequisites: Senior standing

EC 1837, MSE 401, Advanced Energy Materials, approved effective Spring 2007.

Course Description: A survey for cleaner, smaller, cost effective and more efficient energy technologies driven by breakthroughs in materials science and engineering. Solar cells, rechargeable batteries, hydrogen storage, capacitors, high-temperature superconductivity. Renewable energy; solar, geothermal, ocean, hydropower, wind, hydrogen, bioenergy.

Credit Hours: 3 hour lecture

Prerequisites: Graduate standing

EC 1838, Mining Engineering 301, Stage Pyrotechnics and Special Effects, approved effective Fall 2007.

Course Description: Use of energetic materials in close proximity to audiences. Provide participants with training preparing for Missouri Pyrotechnic Display Operators License. Covers: close proximity indoor and outdoor pyrotechnics and special effects. Working with stage crews and talent, safety and permitting.

Credit Hours: Lecture: 1 Lab: 2 Total: 3



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**Prerequisites:** Chem 1, US Citizen or permanent resident (to fulfill the requirements of the SAFE EXPLOSIVES ACT 2003). Resident enrollment at UMR (e.g. not distance or internet)

EC 1840, Civil Engineering 301, International Senior Design, approved effective Summer 2007.

**Course Description:** This is a capstone design course whereby the students will prepare a project manual for a multi faceted design project in a developing country. The manual will require engineering designs, cost analysis, and scheduling. Team leaders will conduct an on-site investigation and team members will spend time in country finalizing documents.

**Credit Hours:** Lecture: 2 Lab: 1 Total: 3

**Prerequisites:** Senior standing and Instructor approval

EC 1841, Computer Engineering 301, Electrical Engineering 301, Systems Engineering 301, Evolvable Hardware, approved effective Spring 2007.

**Course Description:** This course deals with adaptive evolvable systems operating in a changing environment. Components/building blocks approach for the design of evolvable systems and the mathematical theory of evolvable machines and the idea of virtual reconfigurable circuits for the design of more adaptive, competitive and innovative engineering products will be taught.

**Credit Hours:** 3 hour lecture

**Prerequisites:** Comp Eng 367 or Elec Eng 367

EC 1845, Engineering Management 401, Design for Six Sigma, approved effective Spring 2007.

**Course Description:** The course will cover modern design methodology based on the Six Sigma paradigm. Design for Six Sigma (DFSS) is a roadmap for the development of robust products.

**Credit Hours:** 3 hour lecture

**Prerequisites:** EMgt 309 and EMgt 375

EC 1846, Computer Engineering 401, Advanced Topics in Computational Intelligence, approved effective Spring 2007.

**Course Description:** This course will explore cutting-edge research topics in computational intelligence. Consideration will be given to learning methods, computational complexity, data mining, sensor fusion, system integrations, or similar issues. Students will complete a semester project for their grade.

**Credit Hours:** 3 hour lecture

**Prerequisites:** EE 368 or Cp Eng 367 or Cp Eng 458 or Cp Eng 457

EC 1847, Electrical Engineering 401, Intelligent Telecommunication Network Modeling, approved effective Spring 2007.





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**Course Description:** Software modeling of telecommunication systems includes brief description of computational intelligence techniques and emphasizes network modeling tools such as NS2.

**Credit Hours:** 3 hour lecture

**Prerequisites:** Previous AI, neural net or computational intelligence course; and previous communications/signal processing-related course.

**Review of Tabled Items:**

CC 6068, History 274, Recent American Art and Technology. The following changes are approved effective Fall 2007.

**Course Number – Proposed:** 375

**Course Title – Proposed:** Architecture, Technology and Society; 1750 to Present

**Catalog Description – Proposed:** This course investigates the relationships between architecture and technology and, as a consequence, architecture's impact on modern culture and society. A field trip to Chicago is an integral part of the course. Topics include; the industrial revolution, housing styles, new materials, Bauhaus and international style, and post modern architecture.

**Prerequisites – Present:** Hist 175 or 176 or Pol Sc 90

**Proposed:** Hist 111 or 112 or 175 or 176 or Pol Sc 90. **Recommended:**

Junior or Senior Standing. Recommended for Arch E Majors: Art 203 taken prior to course.

EC 1794, MSE 301, Materials Selection in Mechanical Design, approved effective Spring 2007.

**Course Description:** The course will introduce the basics of materials selection in mechanical design. It will also introduce the benefits of computational materials and process selection. The students will also learn to use commercially available materials selection software.

**Credit Hours:** 3 hour lecture

**Prerequisites:** Met 121

**Items Still Tabled:**

CC 5946 – CC 5959 tabled pending approval of the new BS degree in BioEngineering by UM and CBHE.

CC 7031, Biological Sciences 211, Cellular Biology. Tabled, department needs to do a DC form.

**Course Title – Proposed:** Cell Biology

**Catalog Description – Proposed:** The structure and function of eukaryotic and prokaryotic cells. Emphasis on macromolecules, organelles, metabolic pathways, bioenergetics, cell signaling, the cycle, and information processing.

**Credit Hours – Present:** Lecture: 3 Lab: 1 Total: 4

**Proposed:** 3 hour lecture



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CC 7032, Biological Sciences 212, Cell Biology Laboratory. Tabled, department needs to do a DC form.

Catalog Description: Laboratory course to accompany Cell Biology (Biol 211).

Laboratory work includes microscopy, biochemical assays, enzymology, and genetic analysis (PCR, mapping, electrophoresis, transfection, sequencing).

Credit Hours: 1 hour lab

Prerequisites: Preceded or accompanied by Biol 211

#### New Business

Dr. Nisbett was re-elected by the attending Curricula Committee members to continue serving as Chair of the committee.

EC 1805, IST 301, Financial Information Systems, was approved at the May 2006 meeting for effective term FS2007. The department decided they wanted to teach the course starting Spring 2007 and asked the committee to change the effective term in which they agreed to do.

The meeting adjourned at 2:20 pm. The next meeting will be Tuesday October 24, 2006 at 12:30 p.m. in room 117 Fulton Hall.

---

J. Keith Nisbett, Chair  
UMR Campus Curricula Committee

**Volume XXXVII, Number 1**  
**Minutes of the Academic Council Meeting**  
**September 7, 2006**

**I. Call to Order, Roll, and Approval of Minutes**

The meeting was called to order at 13:30 by President Robert Schwartz and roll was taken. The following absentees were noted: Stanley Woronick, Joseph Herdade, Ralph Wilkerson, Barbara Hale, Mohamed Abdelsalam, Paul Worsey, Gary Mueller, D. J. Belarbi, Ronaldo Luna, Don Wunsch, Don Myers, S. N. Balakrishnan, H. L. Tsai, Morris Kalliny, and William Schoenberg. The following substitutions were noted: Michael Nelson for Jim Martin, and Eric Smith for Hal Nystrom.

The meeting minutes of June 22, 2006 were **approved** as submitted.

**II. Academic Council Officers and Committee Elections**

Robert Schwartz proposed a slate of candidates approved by RP&A, for the 2006-7 Academic Council Officers. The slate was **accepted** by acclamation. The slate included:

President: Kurt Kosbar  
President Elect: Frank Blum  
Secretary: Eun Soo Park  
Parliamentarian: Doug Carroll

Robert Schwartz, outgoing President, then turned the meeting over to the new Academic Council President, Kurt Kosbar.

Kurt Kosbar proposed a slate of candidates approved by RP&A, for the 2006-7 Intercampus Faculty Council representatives. The slate was **accepted** by acclamation. The slate included:

Bob Schwartz  
Kurt Kosbar  
Frank Blum

Kurt Kosbar proposed a slate of candidates approved by RP&A, for the 2006-7 Academic Council representatives for three committees. The slate was **accepted** by acclamation. The slate included:

Shannon Fogg – Curricula  
Jeff Smith – Student Affairs  
Mark Fitch – Budgetary Affairs

**III. Campus Reports and Responses**

## **A. Presidents Report – Kurt Kosbar**

a. Meeting format change -- Kosbar noted that the RP&A Committee has voted to change the format of the meetings to put reports from Staff Council, Student Council, and Council of Graduate Students earlier in the meeting.

b. Non-tenure track faculty -- IFC is now in the final stages on how to deal with faculty that are full-time, but not tenure-track.

c. The Academic Council Officers have been communicating with Provost Wray in regards to campus reorganization and elimination of schools. He feels that this process is going along well.

## **B. Chancellor's Report – John Carney III**

a. Breakfast meeting – Chancellor Carney and President Kosbar are going to have three breakfasts this semester where faculty, staff, and students have a chance to talk to them. The dates are September 19, October 10, and November 1.

b. Student Enrollment – We have 980 freshmen and a total number of students are about 5,840, while maintaining quality.

c. MAE Building – The MOHELA Board is currently considering the direct funding of these higher education capital projects. Chancellor Carney is hopeful that UMR will receive substantial MOHELA support for the MAE Building in the very near future.

d. UMR-MSU Memorandum of Understanding – On August 21, Governor Blunt visited UMR to speak and witness the signing of a Memorandum of Understanding between UMR and Missouri State University (MSU). Upon receipt of the required funding from the State, UMR will deliver existing UMR undergraduate degree programs in civil and electrical engineering in cooperation with MSU with a significant number of courses offered on the MSU campus. Discussions regarding possible collaboration occurred last academic year after the legislature passed a statute that allowed Southwest Missouri State University to change its name to MSU. The signing of this agreement paves the way for the State of Missouri to maximize the benefits of its support for engineering education. The result will be additional, highly trained civil and electrical engineers receiving high quality UMR degrees.

e. Capital Campaign – Surpassed the \$81 million mark. We plan to begin the public phase of the campaign in Spring 2007. This will put us right on target to reach our goal of \$200M in June 2010.

f. National Ranking – Chancellor Carney reported the News & World Report university ranking: 54<sup>th</sup> in the top doctoral granting public universities, tied at 112<sup>th</sup> overall, tied at 48<sup>th</sup> for best engineering programs at doctoral granting universities, tied 26<sup>th</sup> among public doctoral granting universities.

g. Flu Shots – Chancellor wants to make it easy for the UMR community to get flu shots for people who are interested.

h. Open meeting – Chancellor Carney is going to have a State of the University open meeting on Monday, October 9 from noon – 1:00 p.m.

### **C. Provost's Report – Kent Wray**

a. Enrollment -- The current total number of students are 5,833 and expect to be 5,840 by the 4<sup>th</sup> week.

b. Federal Plus-up Proposals -- We had 7.2 million last year and submitted 12 million this coming year.

c. Course Syllabus – Provost Wray encourages the faculty to provide the students with a course syllabus and to utilize the Academic Alert System.

d. Outstanding Teaching Award -- Submission deadline for UMR preliminary consideration of the UM President's Award for Outstanding Teaching Award is October 31, and should be submitted to 209 Norwood Hall.

e. Accreditation preparations -- During the 2008-09 academic year, UMR will undergo an institution-wide accreditation review. The accreditation process has changed dramatically in the last ten years. Over the next year, all departments will be asked to provide evidence-based reporting. Vice-Provost Harvest L. Collier is directing the campus-wide reaccreditation self-study. Preparing for our institutional re-accreditation will require cooperation and assistance by all academic and non-academic units on campus.

f. The National Research Council proposes to conduct a new study, the purposes of which are to help universities improve their doctoral programs. We will be looking for information from each of the individual units.

### **D. Staff Council Report – Kim Frazier**

No report.

### **E. Student Council – L. Huchingson**

a. Career Fair Day activities have been moved to a time when there are fewer conflicts with classes and thus Student Council withdraws the previous request that faculty avoid giving exams on Career Fair Day.

b. Student Council passed a resolution that Student Council President have access to a listserv so that the president can communicate directly with faculty. Faculty will have to opt-in to be on the listserv, but the details have not been worked out.

**F. Council of Graduate Students – Adam Sibley**

- a. Council of Graduate Students wants to maintain a collaborative relationship with Student Council this year.
- b. Council of Graduate Students will continue to study the structure for stipends and funding for graduate students on campus and our competitive institutions.

**IV. Reports of Standing and Special Committees**

**A. Curricula – Keith Nisbett**

No report

**V. Old Business**

**A. Report on Current Referrals and Actionable Items**

Kosbar reported the status of current referrals and actionable items.

**VI. New Business and Announcements**

**A. New Referrals**

None

The meeting was adjourned at 14:03.

Respectfully Submitted,

Eun Soo Park  
Secretary, Academic Council

## **ACADEMIC COUNCIL (AC) PRESIDENT'S REPORT FOR SEPTEMBER 7, 2006 AC MEETING**

### **ACADEMIC COUNCIL BUSINESS**

**Campus Reorganization** This will be a number of changes this year, to accommodate the elimination of the school/college structures at UMR. The AC officers have had discussions with the Provost regarding the role the AC, and its committees, will have in this effort. In addition, the UMR by-laws will need to be rewritten, to eliminate references to schools, colleges and deans. Hopefully, significant progress can be made this fall, so the necessary approvals can be obtained by the end of the academic year.

**Timing of Post-Tenure Reviews** The first round of post-tenure reviews are underway, with faculty who have been at their current rank for 5 or more years under review. Some faculty expressed concern over the timing of these reviews, with respect the academic calendar (review forms had to be submitted in late August). While this has the potential to be problematic for faculty, we are unaware of any individuals who experienced significant difficulties with it this year.

**Listserv Which Allows Student Council to Contact Faculty** There have been suggestions that the campus set up an e-mail listserv which would allow the UMR Student Council to send mass mailings to UMR faculty. This matter has been discussed at the AC Rules, Procedures and Agenda (RP&A) committee level, with student leaders. While the final details have not been worked out, the proposal that appears to have the most support, is one where only the Student Council President would be allowed to send messages, and faculty would be required to opt-in to be included on the list. In other words, faculty would not be automatically added to this list, they would have to take some action to add their e-mail address to the list.

**On the Horizon** Some issues which have been raised, which the AC may wish to study, or comment on, in the future. There is little information to pass along regarding these topics at this time. Individuals who have a special interest in these topics are encouraged to contact one of the AC officers for additional information.

- **Student Organization Approval** - There have been suggestions that UMR consider altering our by-laws regarding the recognition of student organizations. The suggestion was to move the final approval from the AC, to the chief student affairs officer and the Department of Student Life. Such a change would make UMR's policies in this area consistent with those of the other three UM campuses.
- **Amorous Relationship Policy** - There are some discussions about enacting a University policy which could prohibit consensual amorous relationships between members of the University community, when one participant has direct supervisory authority over the other. The university has sexual harassment policies, but it does not currently have policies which deal with consensual relationships.

## INTERCAMPUS FACULTY COUNCIL (IFC)

**UMR Representation at IFC** The IFC kicked off the 2006-07 academic year, with a retreat on August 1-2. Traditionally, the University of Missouri – Rolla (UMR) representatives to IFC are the past-president, president, and president elect of the AC. Bob Schwartz, Kurt Kosbar and Frank Blum are acting as IFC representatives, pending the September 7, 2006, AC elections. More information on the IFC is available on the web at:

<http://www.umsystem.edu/ums/departments/aa/faculty/council.shtml>

**Budget** The University System budget for 2007 has expenses of about \$2.2 billion. This figure includes restricted funds such as gifts and research grants. In terms of operating funds (base funds for salaries, Equipment and Expendables, etc) state appropriations constitute about 38%, while student fees constitute about 47%. Before 2003, state support was larger than student fees. For 2008, the University will be requesting a 4% increase for salaries plus 5.2% for benefit costs. Capital requests for UMR in the 2008 budget request include Biological Science/Chemistry/Chem. Eng. Building (\$58 M from State, Rank #2) and Freshman Studies Building (\$13.7 M from state, Rank #6). Many of the current State legislators were not in office the last time there was significant State support of capital improvement projects for higher education.

**Information Technology (IT)** A new UM System Vice President (VP) has been hired, Gary Allen (faculty member in Veterinary Pathobiology) from Columbia and he will be both the VP for IT and also the Chief Information Officer (CIO) of the Columbia campus. George Rickerson (formerly of Mobius) is now an Associate VP for IT. IT is starting a pilot program to outsource student e-mails. This system may have the advantage of allowing students to keep a lifetime e-mail address. IT is also trying to share costs for cross-campus projects such as Blackboard.

**Government Relations** Term limits have made changes in the way we interact with legislators necessary. Legislators are being exposed to the recent changes in the relative amounts of monies from student fees and state aid.

**Background Checks** The University central administration feels it needs to perform background checks on faculty hires. Apparently, such checks are already performed for non-faculty positions. The IFC felt these checks were acceptable, provided it could be implemented without delaying the hiring process, or interfere with academic freedom.

**Number of Semesters in an Academic Year** UMKC and UMSL have more extensive summer offerings than UMR or UMC. For some faculty, summer teaching is part of their regular teaching assignments. A model based on 3 equivalent semesters may be explored. At the present time, this model is inconsistent with our retirement system.

**Non-regular Faculty** There is currently a large number of titles used for non-regular faculty, creating inconsistencies and confusion. An IFC subcommittee studied this issue last year, and produced a document suggesting that the university migrate toward a system where non-regular faculty are all placed into one of 12 categories, namely, the Assistant, Associate and Full levels



of Teaching, Research, Clinical, and Extension faculty. Generally, these faculty members will be evaluated with respect to their primary function (teaching, research, etc., although in some fields these lines are blurred). The limited responsibility for these faculty members distinguishes them from tenure-track faculty. The policy is still in the draft stage, although it may be formalized early in the fall 2006 semester. More information on this policy may be obtained on the web at:

<http://www.umsystem.edu/ums/departments/aa/faculty/nontenure.shtml>

### REFERRALS

All open, and recently closed, referrals to AC committees are listed below, along with a summary of their status. Additional information on these referrals is available from the AC President, or the Chair of the appropriate committee.

Referral	Committee	Status
Revision of Student Academic Regulations, regarding Instructor Drops for Excessive Absences	AC	CLOSED - Motion approved by AC on May 20, 2006, and forwarded to Provost. Implementation pending
Revision of Student Academic Regulations, regarding Instructor Drops for Poor Performance	Academic Freedom and Standards Committee	In Progress – Committee will resume discussion once it is reconstituted for 06-07 academic year. Anticipate report to AC at October meeting.
Higher Learning Commission Accreditation	Ad-Hoc Committee formed by Vice Provost for Graduates and Undergraduates. One AC representative on committee.	In Progress – Since this is not an AC committee, it is not obligated to report to the council.
Faculty/Staff Headcounts and Demographics	Budgetary Affairs	In Progress
Use of End-of-Semester Evaluations	Personnel	In Progress
Non-Tenure Track Faculty Report to IFC	Personnel	CLOSED. Committee has completed review of draft document, will need to monitor any changes that come from IFC, and comment appropriately on those.
Recommendation that Faculty Avoid Giving Exams on Career Fair Days	Initially assigned to Public Occasions Committee, then withdrawn	CLOSED. Career Fair Day activities have been moved to a time when there are fewer conflicts with classes. Anticipate that UMR Student Council representatives to AC will withdraw the request that

		AC consider this matter.
Composition of Campus P&T Committee	Tenure	In Progress. Committee has asked administration to report on some issues, and is awaiting a reply
Voting of Non-Primary Department Members on T&P	AC	CLOSED - Motion approved by AC on Feb 23, 2006, and forwarded to Provost. Implementation pending

Respectively Submitted,  
August 31, 2006

Dr. Robert Schwartz  
Academic Council President, 2005-06 Academic Year

Dr. Kurt Kosbar  
Academic Council President-Elect, 2005-06 Academic Year

John F. Carney III  
Academic Council Meeting  
September 7, 2006

- ◆ Student Enrollment *- banner 980 - Total - 5840.*  
*Quality*
- ◆ MAE Building
- ◆ UMR-MSU Memorandum of Understanding
- ◆ Strategic Plan
- ◆ Accreditation Preparation
- ◆ Capital Campaign *Surpassed \$81 million - go public in April  
to \$210 million - over \$100 million*
- ◆ National Ranking

The logo consists of a black triangle pointing downwards, with the letters "UMR" in white, bold, sans-serif font inside it.

**UMR**

# **ACADEMIC COUNCIL REPORT**

**WARREN K. WRAY  
PROVOST AND  
EXECUTIVE VICE CHANCELLOR**

**SEPTEMBER 7, 2006**

The logo is a black triangle pointing upwards, with the text "UNIVERSITY OF MISSOURI-ROLLA" in white, sans-serif font inside it.

**UNIVERSITY OF  
MISSOURI-ROLLA**



**UMR**

# **ENROLLMENT MANAGEMENT**



**UNIVERSITY OF  
MISSOURI-ROLLA**

## UNIVERSITY OF MISSOURI-ROLLA ENROLLMENT GRID

AUGUST 28, 2006 - FALL

END OF 1ST WEEK

	FR M	FR F	SO M	SO F	JR M	JR F	SR M	SR F	TOTAL UG	MAST M	MAST F	DOCT M	DOCT F	TOTAL GRAD	TOTAL MALE	TOTAL FEMALE	TOTAL YEAR AGO	
ROLLA CAMPUS																		
A&S UND	4	3	8	4	10	1	3	3	36	0	0	0	0	0	25	11	36	48
BIO SC	8	26	11	16	11	15	13	35	135	6	9	0	0	15	49	101	150	130
CHEM	10	8	7	5	6	9	6	8	59	3	3	32	20	58	64	53	117	110
CP SC	58	6	46	5	53	2	71	8	249	55	6	11	5	77	294	32	326	358
ENGL	2	4	1	5	2	4	7	11	36	0	0	0	0	0	12	24	36	43
HIST	6	3	5	7	7	7	18	13	66	0	0	0	0	0	36	30	66	65
MATH	7	6	4	5	9	6	11	6	54	6	2	13	6	27	50	31	81	89
PHIL	0	0	0	0	2	0	1	1	4	0	0	0	0	0	3	1	4	3
PHYS	9	2	7	5	12	3	18	3	59	6	1	10	4	21	62	18	80	62
PSYCH	4	10	5	10	2	14	14	13	72	0	0	0	0	0	25	47	72	70
TECH COM	0	0	4	0	0	0	0	1	5	0	6	0	0	6	4	7	11	0
A&S	108	68	98	62	114	61	162	102	770	76	27	66	35	204	624	355	979	978
AERO E	0	0	27	7	37	8	60	9	148	19	3	3	1	26	146	28	174	139
ARCH E	0	1	10	8	30	19	38	17	123	0	0	0	0	0	78	45	123	79
CHEM E	2	0	14	9	29	19	30	29	132	8	9	12	5	34	95	71	166	153
CIV E	0	0	15	7	63	14	122	27	248	21	12	13	12	58	234	72	306	290
COMP E	0	0	11	3	38	2	67	5	126	24	5	7	3	39	147	18	165	176
ELEC E	0	0	28	1	71	12	161	12	285	76	20	43	8	147	379	53	432	420
E MGT	2	0	9	2	27	20	52	18	130	34	5	11	6	56	135	51	186	197
E MECH	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1	4
ENGR UND	0	0	1	0	5	0	8	1	15	0	0	0	0	0	14	1	15	17
ENVR E	0	0	1	1	7	5	5	5	24	3	2	0	0	5	16	13	29	25
IND E	0	0	2	2	3	0	1	0	8	0	0	0	0	0	6	2	8	0
MANF E	0	0	0	0	0	0	0	0	0	14	2	0	0	16	14	2	16	22
MECH E	2	0	61	4	133	7	239	27	473	46	5	34	4	89	515	47	562	535
SYS E	0	0	0	0	0	0	0	0	0	10	7	0	0	17	10	7	17	5
FR ENGR	622	129	296	58	45	7	4	2	1163	0	0	0	0	0	967	196	1163	996
ENGR	628	130	475	102	488	113	787	152	2875	255	70	124	39	488	2757	606	3363	3058
BUS&MS	23	11	14	13	13	18	24	18	134	0	0	0	0	0	74	60	134	117
ECON	2	0	0	1	5	2	4	2	16	0	0	0	0	0	11	5	16	13
IS&T	4	4	12	2	20	3	26	5	76	26	11	0	0	37	88	25	113	104
MGT SYS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
M&IS UND	2	1	2	1	4	1	1	0	12	0	0	0	0	0	9	3	12	17
M&IS	31	16	28	17	42	24	55	25	238	26	11	0	0	37	182	93	275	254
CER E	0	0	8	4	9	7	15	15	58	3	2	13	3	21	48	31	79	62
GEOL E	1	0	4	1	9	0	12	8	35	5	3	6	1	15	37	13	50	48
GEO & GP	4	2	4	2	8	5	9	9	43	9	6	8	2	25	42	26	68	84
MAT E	0	0	0	0	0	0	0	0	0	8	4	2	2	16	10	6	16	0
MET E	0	0	8	3	16	4	26	4	61	11	0	9	0	20	70	11	81	73
M&M UND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIN E	1	0	11	1	16	1	40	6	76	1	0	7	3	11	76	11	87	68
NUCL E	1	0	12	3	31	3	31	9	90	5	0	4	1	10	84	16	100	78
PETR E	0	0	7	0	9	0	9	1	26	8	1	2	0	11	35	2	37	21
FR ENGR	85	23	44	13	5	2	1	0	173	0	0	0	0	0	135	38	173	107
MEER	92	25	98	27	103	22	143	52	562	50	16	51	12	129	537	154	691	541
NON DG	21	11	0	1	0	0	2	0	35	9	5	0	0	14	32	17	49	75
CAMPUS TOTAL	880	250	699	209	747	220	1149	331	4485	416	129	241	86	872	4132	1225	5357	4906
EXTENDED LEARNING																		
AERO E	0	0	0	0	0	0	0	0	0	1	1	0	0	2	1	1	2	2
CIV E	0	0	0	0	0	0	0	0	0	31	11	1	0	43	32	11	43	36
COMP E	0	0	0	0	0	0	0	0	0	6	1	0	0	7	6	1	7	3
CP SC	0	0	0	0	0	0	0	0	0	4	4	0	0	8	4	4	8	7
ELEC E	0	0	0	0	0	0	0	0	0	4	0	0	0	4	4	0	4	8
E MGT	0	0	0	0	0	0	0	0	0	52	16	7	0	75	59	16	75	75
E MECH	0	0	0	0	0	0	0	0	0	7	0	0	0	7	7	0	7	3
ENVR E	0	0	0	0	0	0	0	0	0	2	0	0	0	2	2	0	2	1
GEOL E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
GEO & GP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
GEOTECH	0	0	0	0	0	0	0	0	0	10	1	0	0	11	10	1	11	0
IS&T	0	0	0	0	0	0	0	0	0	12	3	0	0	15	12	3	15	6
MANF E	0	0	0	0	0	0	0	0	0	12	0	0	0	12	12	0	12	11
MECH E	0	0	0	0	0	0	0	0	0	7	1	2	0	10	9	1	10	8
MIN E	0	0	0	0	0	0	0	0	0	14	3	0	0	17	14	3	17	16
SYS E	0	0	0	0	0	0	0	0	0	175	45	0	0	220	175	45	220	143
NON DG	8	3	0	0	0	0	0	0	11	8	0	0	0	8	16	3	19	84
EXT LEARN TOTAL	8	3	0	0	0	0	0	0	11	345	86	10	0	441	363	89	452	424
UMR TOTAL	888	253	699	209	747	220	1149	331	4496	761	215	251	86	1313	4495	1314	5809	5330

NOTE: 124 CO-OP students are included in the campus total  
 11 CDIS students are included in the distance total  
 102 EEC students are included in the distance total  
 980 First-time freshmen are included in the campus total  
 263 New transfer students are included in the campus total  
 373 New graduate students are included in the UMR total

109 Included one year ago  
 22 Included one year ago  
 111 Included one year ago  
 899 Included one year ago  
 295 Included one year ago  
 355 Included one year ago

## UMR - Enrollment Management Services WEEKLY ENROLLMENT REPORT

			Fall 2001 (PS Conv) 8/28/2001	Fall 2002 (PS) 8/28/2002	Fall 2003 (PS) 8/28/2003	Fall 2004 (PS) 8/28/2004	Fall 2005 (PS) 8/28/2005	Fall 2006 (PS) 8/28/2006
<b>FRESHMEN</b>	<b>Prospects</b>	Beg. Fr. Prospects	42816	65110	42288	24048	15729	***
		HS Jr. Prospects	10704	10296	19157	22581	7556	7351
	<b>Inquiries</b>	Beg. Fr. Inquiries	9071	13406	11111	9866	10473	11191
		HS Jr. Inquiries	1203	8271	7088	6854	6966	7273
	<b>Applications</b>		1823	1943	1877	1873	1981	2080
		Pending	82	43	43	27	58	36
		Withdrawn Apps	36	31	14	6	1	14
	<b>Admitted</b>		1643	1752	1743	1743	1830	1908
		Cancelled Admits	421	490	254	593	449	484
		Denied	62	117	77	97	92	122
	<b>Enrolled</b>		*714	*808	*885	*876	*898	980
<b>TRANSFERS</b>	<b>Inquiries</b>		710	709	701	883	743	1030
	<b>Applications</b>		477	461	453	431	405	474
		Pending	73	60	43	26	47	60
		Withdrawn Apps	14	3	5	13	21	36
	<b>Admitted</b>		371	380	386	374	323	360
		Cancelled Admits	18	13	19	15	15	32
		Denied	19	18	19	18	14	18
	<b>Enrolled</b>		*195	*249	*266	*282	*295	263
<b>GRADUATES</b>	<b>Inquiries</b>		4580	3508	2485	1388	1456	1921
	<b>Applications</b>		2316	3044	2590	1364	1323	1722
		Pending	556	733	522	150	76	144
		Withdrawn Apps	19	38	27	15	7	13
	<b>Admitted</b>		1202	1531	1315	787	822	977
		Cancelled Admits	0	0	0	0	0	0
		Denied	539	742	726	412	418	588
	<b>Enrolled</b>		N/A	N/A	*315	*322	*423	373
<b>ORIENTATION</b>	<b>Freshmen</b>	Total Reservations	*725	*836	*910	*873	*909	1004
	<b>Transfer</b>	Total Reservations	N/A	N/A	*134	*150	*112	140
<b>HOUSING AGREEMENTS</b>		Upperclassmen	*534	*514	*603	*651	*652	690
		Beginning Freshmen	*481	*626	*779	*758	*879	784
		New Transfers	N/A	N/A	N/A	N/A	N/A	N/A
		Waivers	N/A	N/A	N/A	N/A	N/A	N/A
		<b>TOTAL</b>	1,015	1,140	1,382	1,409	1,531	1,474
<b>4TH WEEK CENSUS</b>		Beginning Freshmen	715	815	897	877	914	
		New Transfers	231	261	281	288	312	
		Graduates	395	423	348	402	355	
		<b>TOTAL</b>	1,341	1,499	1,526	1,567	1,581	

Unofficial Internal Planning Data - not intended for public release.

PS Conv - PeopleSoft conversion data

PS - data from PeopleSoft system

\*\*\*Currently working on EOS data loads

\*As of 09-01-2005

**UMR****UMR**  
UNIVERSITY OF MISSOURI-ROLLA**OFFICE OF THE REGISTRAR**103 Parker Hall  
1870 Miner Circle  
Rolla, MO 65409-0930  
Phone: 573.341.4181  
Fax: 573.341.4362  
registrar@umr.edu  
campus.umr.edu/registrar**University of Missouri - Rolla  
Enrollment Statistics  
Fall Semester 2006  
August 28, 2006**

	FS 2004	FS 2005	FS 2006	Change	
<b>On Campus:</b>					
Close of Registration	4,814	4,973	5,273	▲ 300	6.0%
End of First Week	4,906	5,049	5,357	▲ 308	6.1%
End of Second Week	4,932	5,088			
End of Third Week	4,928	5,094			
End of Fourth Week	4,936	5,101			
<b>Engineering Education Center:</b>					
Close of Registration	96	108	94	▼ -14	-13.0%
End of First Week	99	111	102	▼ -9	-8.1%
End of Second Week	101	115			
End of Third Week	101	115			
End of Fourth Week	100	116			
<b>Distance Education:</b>					
Close of Registration	318	348	296	▼ -52	-14.9%
End of First Week	325	378	350	▼ -28	-7.4%
End of Second Week	334	388			
End of Third Week	358	385			
End of Fourth Week	371	385			
<b>TOTAL:</b>					
Close of Registration	5,228	5,429	5,663	▲ 234	4.3%
End of First Week	5,330	5,538	5,809	▲ 271	4.9%
End of Second Week	5,367	5,591			
End of Third Week	5,387	5,594			
End of Fourth Week	5,407	5,602			

UNIVERSITY OF  
MISSOURI-ROLLA





**UMR**

# **RESEARCH**



**UNIVERSITY OF  
MISSOURI-ROLLA**

## Appropriated FY07 Federal Plus-Up Proposals

Title	\$M
Center for Detection and Neutralization of Electronically Initiated Improvised Explosive Devices ( <i>Drewniak</i> )	3.0
Advanced Aerospace Manufacturing Technologies( <i>Leu</i> )	5.0
High Performance Alloy Materials and Advanced Manufacturing of Steel Castings for Improved Weapon System Reliability ( <i>Richards</i> )	2.0
Consortium for Bone and Tissue Repair and Regeneration ( <i>Rahaman-UMKC lead / we'll get 1/2</i> )	1.0
Millimeter Wave Portable Imaging System for Launch Vehicles and Space-Based Habitat Structures ( <i>Zoughi - asked for \$4.5M</i> )	??
Energy Research and Development Center( <i>Crow</i> )	1.0
<b>Total</b>	<b>\$12.0 M</b>

Plus-up Funding in Previous Years (\$M)								
FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY06
0.3	1.2	3.4	8.2	6.2	8.6	12.3	11.8	7.2

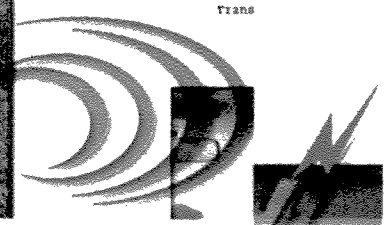
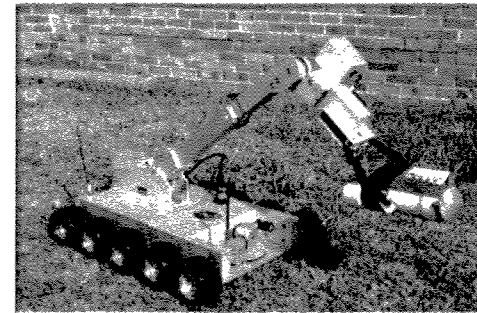
## Detect, Identify, Neutralize IEDs

Team Leader: *Jim Drewniak, Professor of ECE*



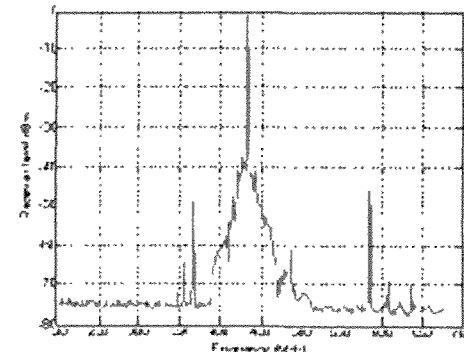
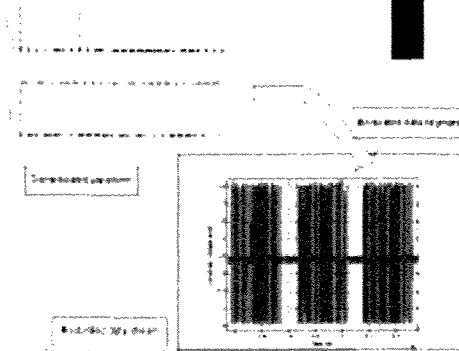
**VERIFY!**

3. **Neutralize** the electronics from a robotic platform using Electromagnetic Pulse (EMP) radiation



1. Remotely **detect** electromagnetic emissions from electronically triggered IEDs

2. **Identify** the specific device from characteristic signatures of the electronics and signaling codes



**UMR**

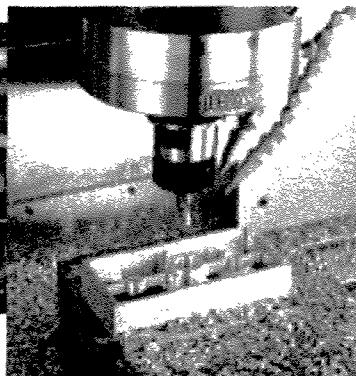
*June 2004: Launch of the largest research contract ever at UMR: the \$14.2M*  
**Center for Aerospace Manufacturing Technologies**

30 faculty; 50 graduate students

**Partners: WPAFB & Boeing**



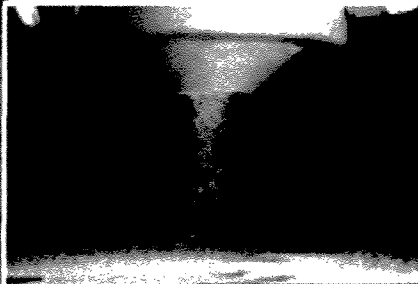
Advanced  
Simulation



High Speed  
Machining



Abrasive  
Slurry Cutting



Rapid  
prototyping



Laser  
Materials  
Processing



Friction Stir  
Processing



Non-  
Chrome  
Coating



Non-  
Destructive  
Evaluation



Composites  
Manufacturing



Laser-hard  
materials

*Team Leader: Ming Leu, Bailey Professor of ME*

UNIVERSITY OF  
MISSOURI-ROLLA

The logo for the University of Missouri-Rolla (UMR) is a black triangle pointing downwards, with the letters "UMR" in white, bold, sans-serif font inside it.

**UMR**

## **Consortium for Bone and Tissue Repair and Regeneration (CBTRR)**

A joint UMR/UMKC center to research and develop advanced biomaterials, biosensors, and biointerfaces for the repair and regeneration of traumatized bone and tissues



**UNIVERSITY OF MISSOURI-ROLLA**

*Len Rahaman*  
*Professor of MatSE*



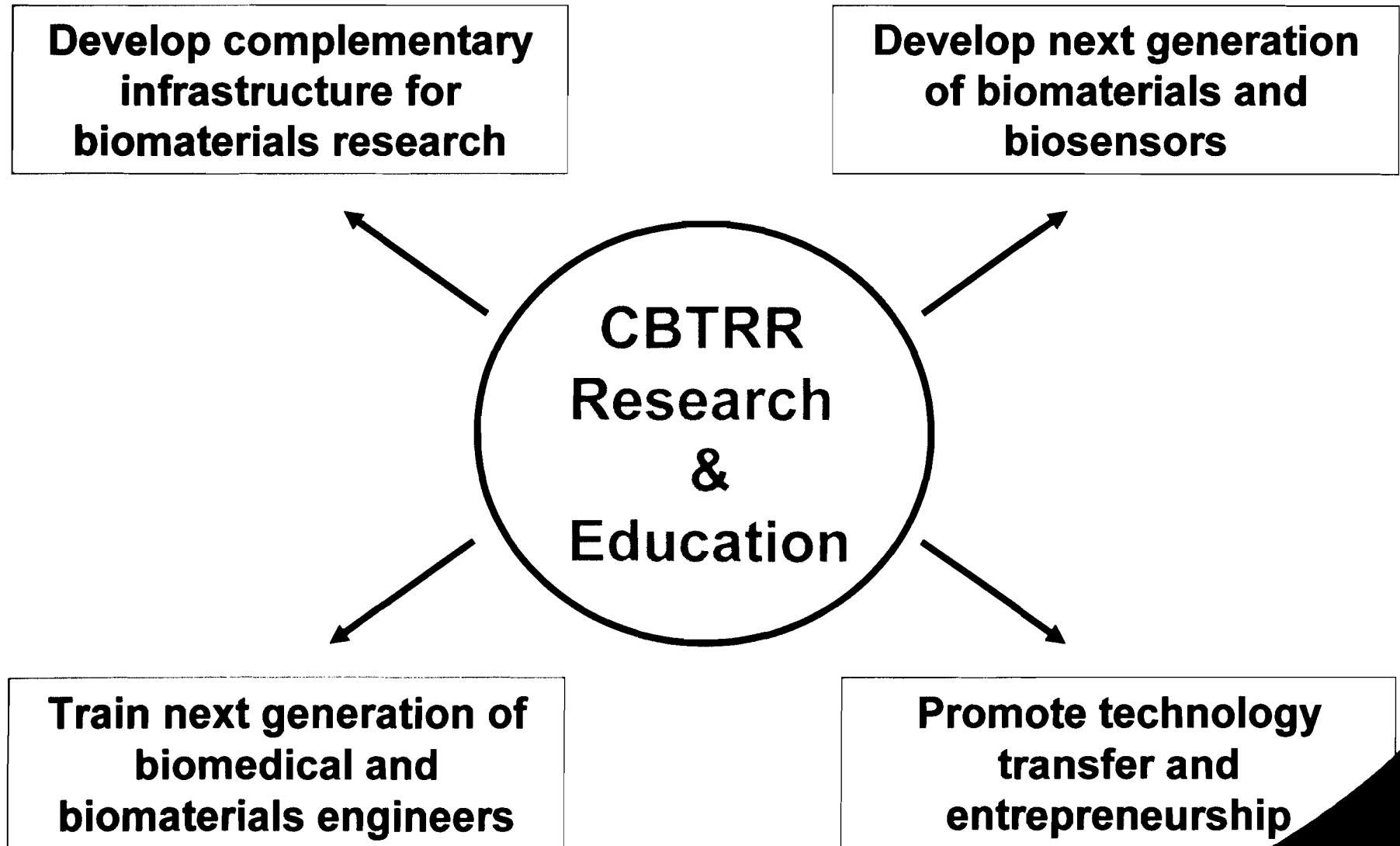
**UNIVERSITY OF MISSOURI  
KANSAS CITY  
SCHOOL OF DENTISTRY**

*David Eick*  
*Curators' Professor of Oral Biology*

The logo for the University of Missouri-Rolla is a black triangle pointing downwards, with the text "UNIVERSITY OF MISSOURI-ROLLA" in white, sans-serif font inside it.

**UNIVERSITY OF  
MISSOURI-ROLLA**

# CBTRR Objectives



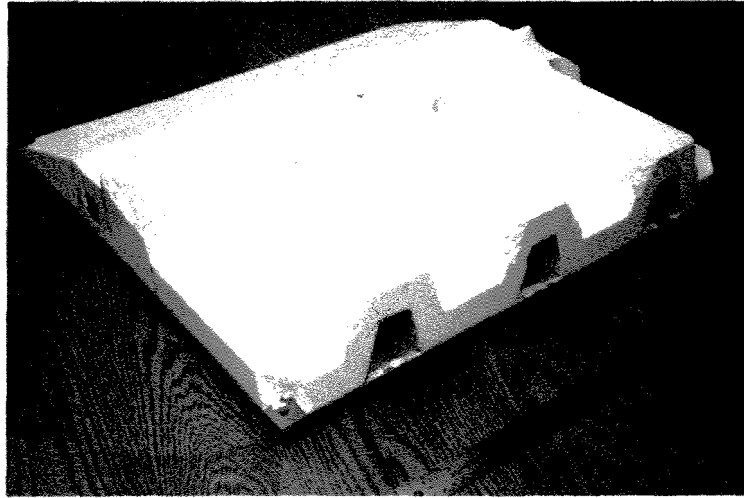
## Millimeter Wave Portable Imaging System for Launch Vehicles and Space-Based Habitat Structures

*Team Leader: Reza Zoughi*  
*Schlumberger Professor of ECE*

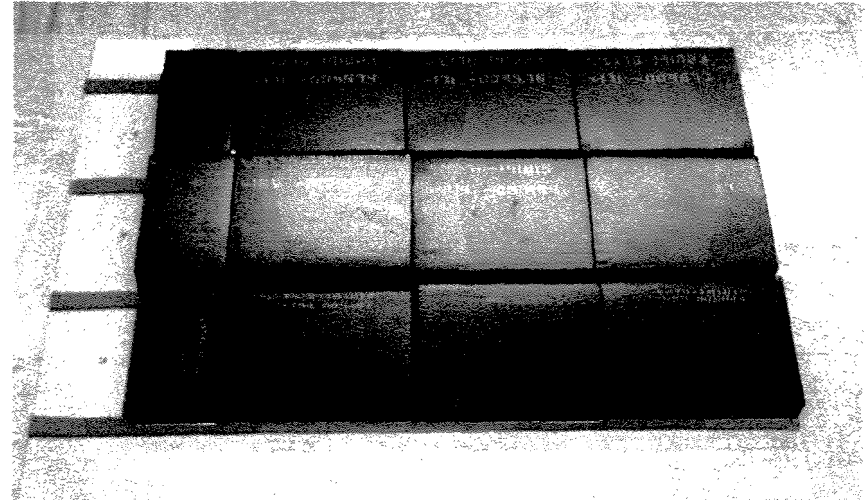
**Objective:** Develop a handheld millimeter wave imaging system (camera) capable of real-time, on-site image production of complex composite structures used in launch vehicles and structures, and future space-based habitat structures (on the Moon and on Mars).

**UMR**

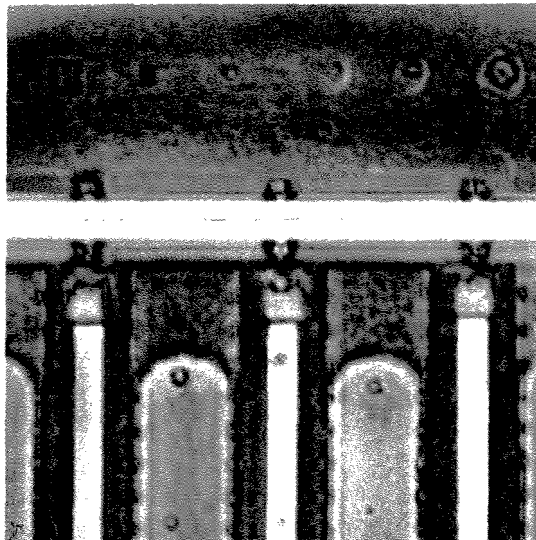
## Microwave Inspection System for the Space Shuttle: X-Y Scanner System



Foam Insulation



Heat Tiles



Microwave  
images  
reveal  
internal  
defects



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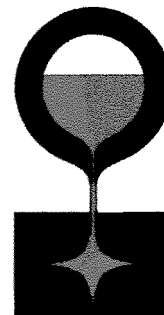
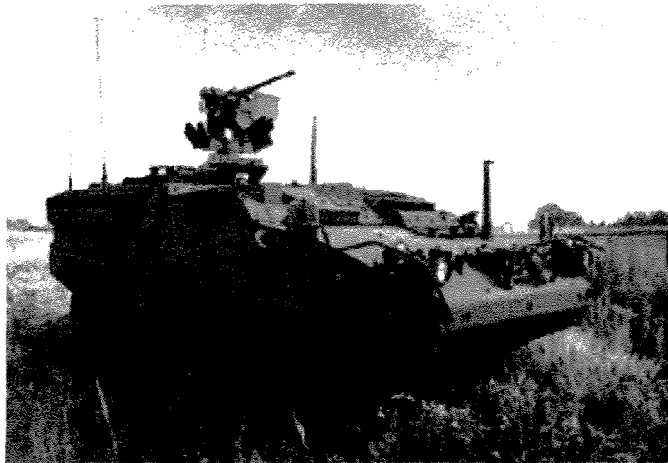
## Advanced Steel Castings for Improved Weapons

**Purpose:** Develop alloys and casting processes to significantly decrease component weights of defense systems

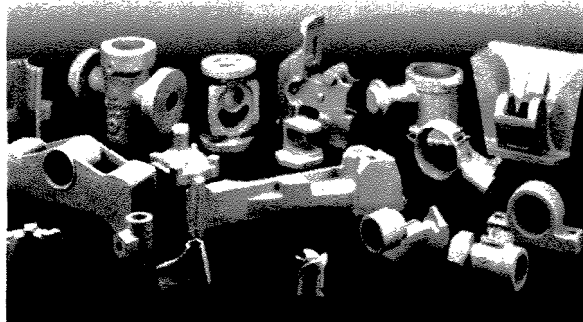
*Team Leader: Von Richards*

*Wolf Professor of Met. Eng.*

*Partners:*




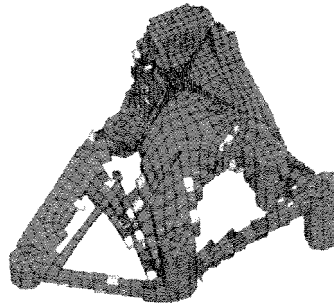
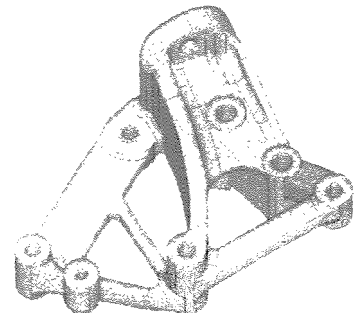
Steel Founders' Society  
of America:

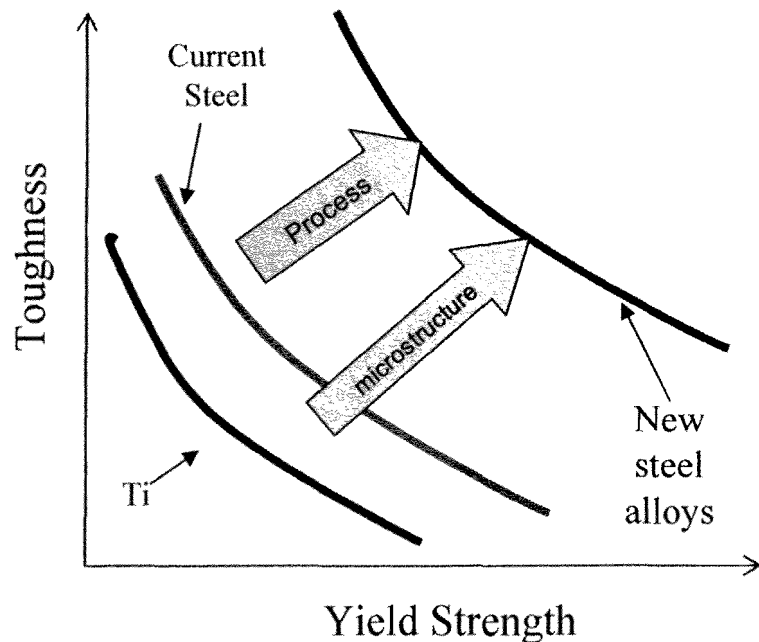


Benet Weapons  
Laboratory

UNIVERSITY OF  
MISSOURI-ROLLA

## Castings are Inherently Light-weight

		
Forged Original	Computer Model of Casting	New Cast Design – Lighter Weight



### Castings in Military Systems can:

- Reduce part counts by 50%
- Reduce manufacturing time
- Lower costs
- Reduce weights by 25 – 50%

Goal: Provide steel castings that outperform titanium at 1/10 of the cost

**UMR**

# **UNDERGRADUATE AND GRADUATE STUDIES**

**UNIVERSITY OF  
MISSOURI-ROLLA**

# Academic Alert System

- The Academic Alert System is a web-based application that supports communication among instructors, advisors, and students in cases where students are not meeting the academic requirements in the courses they are taking.
- Data indicates the Academic Alert System is a critical component in the retention of first year students, as the majority of academic alerts were issued to students in the Freshman Engineering Program last year. Therefore, UMR faculty are encouraged to utilize the system within the first few weeks of class, and throughout the semester as needed.
- It is important for instructors to emphasize to students that the system is intended to assist them in succeeding in their courses.
- Access available at: <http://campus.umn.edu/acalert/>

# Center for Educational Research & Teaching Innovation

## CERTI WELCOMES NEW PROGRAM COORDINATOR

- The Office of Undergraduate & Graduate Studies welcomes **Angela Perkins**, Program/Project Support Specialist for the Center for Educational Research & Teaching Innovation (CERTI).
- Angela Perkins joins us from Northwest Missouri State University, where she served as Coordinator of Volunteer Programs and Service Learning and Assistant Program Director for Kauffman Scholars summer programs. In addition to her time at Northwest, her background includes coordination of programs for non-profits and residential life experience as a counselor at the Illinois Math and Science Academy.



**UMR**

# **Please Join Us!**

**In Celebration of UMR Programs  
that Contribute to Student  
Academic Success**

**Displays by:**

- Center for Educational Research & Teaching Innovation (CERTI)
- Counseling & Academic Support Programs
- HLC Accreditation Steering Committee
- Information Technology
- Learning Enhancement Across Disciplines
- New Faculty Programs
- New Student Programs
- Office of Undergraduate & Graduate Studies
- The Writing Center
- UMR Bookstore
- UMR Library
- And More!

**September 6, 2006  
2nd Floor-Norwood Hall  
2:00-4:00 PM**

***\* Food & Refreshments \* Displays \* Open Houses \*  
\* Door Prizes \* Informational Resources \****

**Open to all UMR faculty, staff & students!**



**UNIVERSITY OF  
MISSOURI-ROLLA**

**UMR**

# UMR Honor's Academy



80 new Honors Academy students attended the 2006 Honors Academy Welcome Reception event held Wednesday, August 23

This year, UMR has tripled the number of new students entering the Honor's Academy and doubled the number of New Student Honors Seminars offered. The dynamic growth includes doubling the social events, Distinguished Speakers and contests, expanding the gala Honors formals and dinners and adding the potential for a National Collegiate Honors Council Conference trip.

UNIVERSITY OF  
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# Important Information for Course Syllabi-Fall 2006

All faculty are encouraged to provide students with a course syllabus to emphasize the expectations that students must meet in order to be successful in the courses they are taking.

In addition to the important information that is typically included in a course syllabus, faculty are encouraged to include information about UMR's Academic Alert System, and the process for addressing academic dishonesty.

- **Academic Alert System:** [www.campus.umn.edu/acalert](http://www.campus.umn.edu/acalert)  
All faculty are encouraged to utilize the online Academic Alert System in order to enhance the academic success of students in their courses. Students who receive an academic alert should be encouraged to take action by visiting with their instructor or academic advisor.
- **Academic Dishonesty:** <http://campus.umn.edu/registrar/pdf/acareg04-06.pdf>  
Page 30 of UMR's "Student Academic Regulations" handbook describes the student standard of conduct relative to the System's Collected Rules and Regulations section 200.010, and offers descriptions of academic dishonesty including cheating, plagiarism or sabotage.

Links and guidance materials, including an example course syllabus, are available on-line at <http://www.umn.edu/ugs/>, or by contacting the Office of Undergraduate & Graduate Studies at 573-341-7276.



# Master Student Fellowship Program

This year, UMR and the Office of Undergraduate & Graduate Studies (UGS) will welcome three new students to the Master Student Fellowship Program:

- Kristine Brown, Chemical & Biological Engineering
- Tom Bailey, Materials Science & Engineering
- Devin Boyle, Mechanical & Aerospace Engineering

The MSFP is an elite group of students who are participating in an accelerated course of study to achieve a bachelors and masters degree at the same time. UGS is hosting a series of events throughout the year to build a sense of community and to address common issues of concern among MSFP students and their academic advisors.

More information about the MSFP is available on the UGS web site at: <http://campus.umn.edu/ugs/honors.htm> .

# NATIONAL RESEARCH COUNCIL'S ASSESSMENT OF RESEARCH DOCTORATE PROGRAMS

The National Research Council, which conducted assessments of doctoral programs in 1983 and 1995, proposes to conduct a new study, the purposes of which are to:

- Help universities improve their doctoral programs through benchmarking.
- Expand the talent pool through accessible information, easily available to potential doctoral students, about doctoral programs.
- Benefit the nation's research capacity by improving the quality of doctoral programs and their students.

This study will be a marked departure from earlier studies. Although it will proceed primarily through questionnaires to universities, programs, faculty, and students (for a few fields), it will gather information about a large number of quantitative variables that are related to:

- Scholarly productivity of program faculty
- Effectiveness of doctoral education
- Research resources
- Demographic characteristics of students and faculty
- Resources available to doctoral students
- Characteristics of the doctoral program.

This data, collected under uniform definitions, will be used to construct a large web- resident database for about sixty fields of study, thus permitting comparisons of programs within a university and across universities. The database will be constructed so that it can be updated regularly.

For the purposes of the study, a program must satisfy at least three of the following four criteria:

1. Enrolls doctoral students
2. Has a designated faculty
3. Develops a curriculum for doctoral study
4. Makes recommendations for the award of degrees

In addition, the programs you identify for your institution must relate to one of the fields in the table and have graduated a least 5 Ph.D.s over the past 5 academic years.



**UMR**

# **UM President's Award for Outstanding Teaching 2007**

## **UMR CAMPUS CALL FOR NOMINATIONS FOR THE UM PRESIDENT'S AWARD FOR OUTSTANDING TEACHING FOR 2007**

- This notice initiates the procedure to conducting an on-campus process of reviewing dossiers (WITHOUT EXTERNAL REFERENCE LETTERS) of faculty that desire to be considered for this award.
- A review panel, established by the Provost, will serve to review submitted dossiers and make recommendations on those that should be fully prepared and submitted into the system-wide competition. The dossiers must be prepared so as to address the suggested criteria that is posted on the UM System web site under "President's Award for Outstanding Teaching 2007 (For a Ten-Year Career on a Missouri Campus)."
- Please see: Additional Information on the UM System web site at: <http://www.umsystem.edu/ums/departments/aa/awards/awards2.shtml>
- In addition, it is requested that each dossier submitted for the preliminary campus consideration be accompanied by a nomination letter from both the faculty member's department chair and college/school dean.
- PLEASE NOTE: The Submission Deadline for the UMR Preliminary Consideration is October 31st, 2006. Materials must be submitted to 209 Norwood Hall. The Deadline for the Complete Nomination Packages for the Selected UMR Nominee to be submitted to the system-wide competition is January 31, 2007.



UNIVERSITY OF  
MISSOURI-ROLLA

# UMR Re-Accreditation Self Study

During the 2008-09 academic year, UMR will undergo an institution-wide accreditation review. University of Missouri-Rolla is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools. We were last reviewed in 1998 and received re-accreditation for ten years. Accreditation is an activity of great importance for the University. Evaluating the past and present and planning for our future ensures currency, quality, and viability. Every unit on this campus contributes to the learning environment we strive to create.

- The accreditation process has changed dramatically in the last ten years. It now requires evidence-based reporting linked to assessment and the strategic plan. Over the next year, all departments will be asked to provide such evidence-based reporting. Vice-Provost Harvest L. Collier is directing the campus-wide reaccreditation self-study. He has composed a cross-University team to assist in steering the self-study and to consult widely with students, faculty, staff, and administrators in assembling its report. The team will begin visiting departments soon with specific details and information requests.
- Preparing for our institutional re-accreditation will require cooperation and assistance by all academic and non-academic units on campus. The process of self study in which we are now engaged is intended to encourage our ongoing efforts in assessment and improvement, and give us an opportunity to demonstrate our many strengths and points of excellence.

For additional information about UMR Accreditation contact:

**UMR Reaccreditation Self-Study**  
**Office of Undergraduate & Graduate Studies**  
**209 Norwood Hall**  
**E-mail: [accredit@umr.edu](mailto:accredit@umr.edu)**  
**Phone: 573-341-7276**  
**Fax: 573-341-7912**  
**Website: <http://accreditation.umr.edu/>**

# Voyager Learning Community

Approximately 75 first year students are participating in the Voyager Learning Community this year.

Upcoming Voyager Seminars include:

- 8/30/06, 8/31/06: "Why Are You Knot Learning?"- UMR Academic Support Programs
- 9/8/06: "Academic Alert System"- Amy Gillman, Office of Undergraduate & Graduate Studies, & Carla Bates, IT
- 9/8/06 - 9/9/06- NRHH Leadership Trip
- 9/10/06 - "Project Success", - Sponsored by New Student Programs & Monster.com
- 9/13/06- "Diversity Fulfilled" – Cecelia Elmore, Student Diversity Programs
- 9/18/06- "Campus Life" – Matt Goodwin, Student Life



**UMR**

# **SCHOOL OF EXTENDED LEARNING**



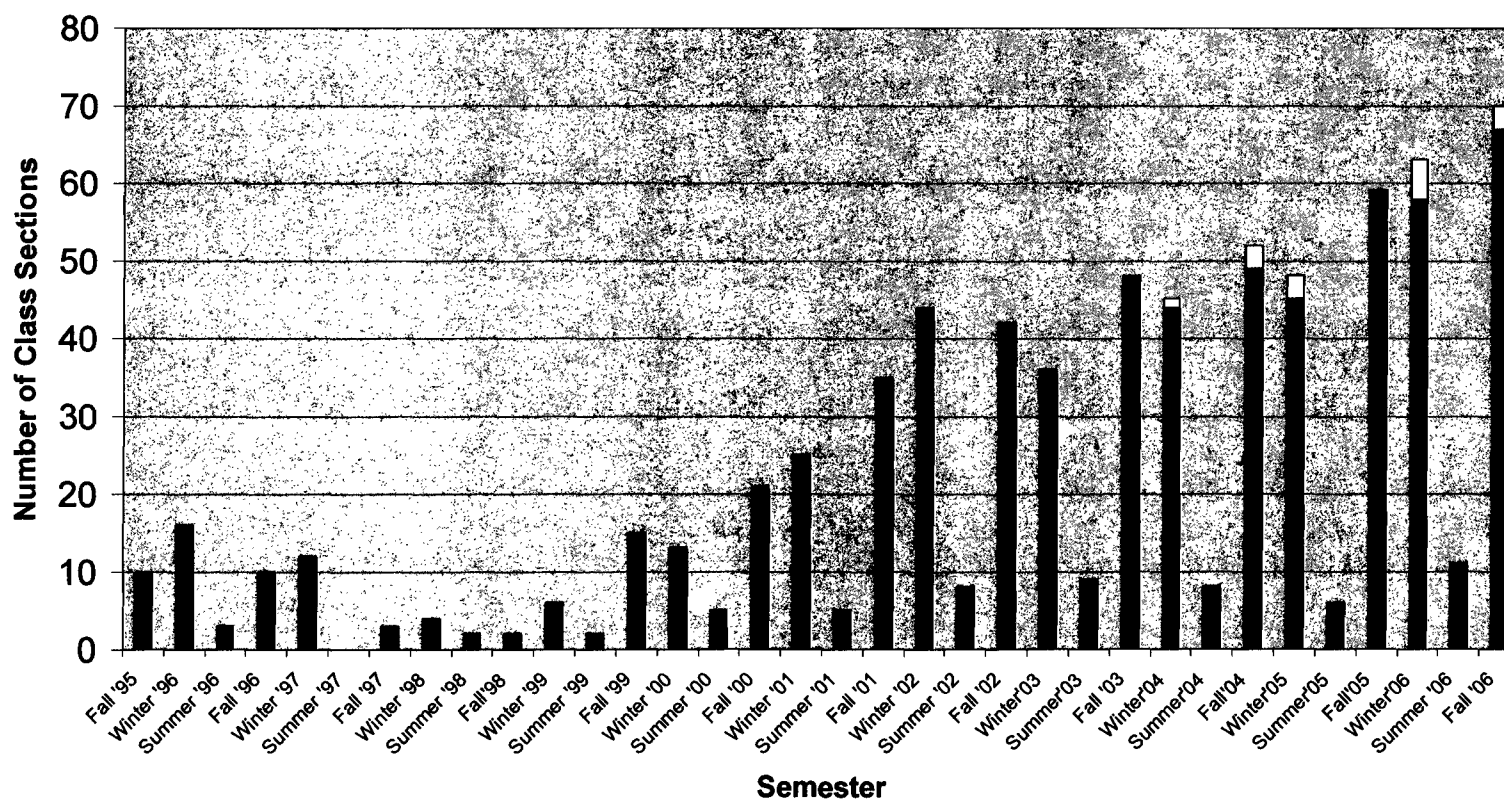
**UNIVERSITY OF  
MISSOURI-ROLLA**

# School of Extended Learning

- **Video Communications Center:**
- Activity in the Video Communications Center continues to grow as the academic departments develop more of their courses for delivery over the internet. Seventy (70) courses are being produced in its video classrooms. Departments are urged to communicate their needs for the Spring 2007 semester as soon as possible to the Registrar's Office to insure that time slots will be available. The growth in this activity is shown in the graph on the next page. The shaded areas represent different electronic formats being used for the classes.

# School of Extended Learning

**UMR VCC Distance Class Sections**





# School of Extended Learning

- **International Affairs Office:**
- The International Affairs Office continues to process an increasing number of international students that have arrived for the Fall 2006 semester. The number as of August 21, 2006, stood at 164 as compared to 120 for FS 2004 and 149 for FS 2005. This number shows a significant gain over the previous two years at the beginning of the Fall semester. However, FS 2006 will probably not reach the final FS 2005 number because of the late arrival of a large number of students from Saudi Arabia during 2005. Many of these Saudi students, who are fully funded by their government, have now completed their Intensive English classes and are now entering their academic programs at UMR.
- UMR's largest international student population comes from India, China, Saudi Arabia, Turkey and Thailand in rank order with India being the largest. It is interesting to compare this with national student demographics shown in the table on the next page.

# School of Extended Learning

Rank	Place of Origin	2003/04	2004/05	2004/05 % of Int'l Student Total	2004/05 % Change
	<b>WORLD TOTAL</b>	<b>572,509</b>	<b>565,039</b>	<b>-</b>	<b>-1.3</b>
1	India	79,736	80,466	14.2	0.9
2	China	61,765	62,523	11.1	1.2
3	Korea, Republic of	52,484	53,358	9.4	1.7
4	Japan	40,835	42,215	7.5	3.4
5	Canada	27,017	28,140	5.0	4.2
6	Taiwan	26,178	25,914	4.6	-1.0
7	Mexico	13,329	13,063	2.3	-2.0
8	Turkey	11,398	12,474	2.2	9.4
9	Germany	8,745	8,640	1.5	-1.2
10	Thailand	8,937	8,637	1.5	-3.4
11	United Kingdom	8,439	8,236	1.5	-2.4
12	Indonesia	8,880	7,760	1.4	-12.6
13	Colombia	7,533	7,334	1.3	-2.6
14	Brazil	7,799	7,244	1.3	-7.1
15	Hong Kong	7,353	7,180	1.3	-2.4
16	Kenya	7,381	6,728	1.2	-8.8
17	France	6,818	6,555	1.2	-3.9
18	Nigeria	6,140	6,335	1.1	3.2
19	Pakistan	7,325	6,296	1.1	-14.0
20	Malaysia	6,483	6,142	1.1	-5.3

The leading five places of origin represented 47.2% of international students in the U.S.

# **School of Extended Learning**

- **Engineering Education Center:**
- The role of the Engineering Education Center continues to change. Historically this center served only the local St. Louis metro area by providing face-to-face instruction in St. Louis. Today, the EEC serves both UMR's on campus students and distance students. During the last academic year, 16 courses were sent out over the internet from the EEC to serve UMR's on campus students and 14 courses were sent out to distance students throughout the US. This activity generated an additional \$450,000 in revenue beyond that collected from the traditional face-to-face EEC students.



**UMR**

# **INFORMATION TECHNOLOGY**



**UNIVERSITY OF  
MISSOURI-ROLLA**

# Information Technology

UMR ranked among the nation's '25 most connected campuses' by the *Princeton Review* and *Forbes.com*

UMR received CIO Magazine's "CIO 100" award for 2006.

- **Applications/Enterprise Reporting**

- » Planning & design continues to progress for Research Repository
  - Showcase & market UMR Research to internal and external research communities
- » Upgrade to Blackboard version 7.1 is complete

- **Networks and Computing**

- » 100 Mbps ultra fast network connection live to Fort Leonard Wood
- » Network file storage system conversion is complete
- » Voice-Over IP Telephony Project
  - Over 1000 VoIP phones deployed
  - Custodial/Building and Grounds deployment completed
  - Harris Hall deployment completed
  - Schrenk Hall deployment completed
  - Fulton Hall and the UMR Reactor are scheduled for conversion in October 2006
  - Campus Support Facility scheduled for conversion in November 2006

# Information Technology

- **Solutions Center**

- » Desktop Enhancement
  - FY2006 over 92% complete with 292 machines deployed
- » Technology Classrooms
  - 60% of centrally scheduled classrooms (53 out of 87) will be outfitted with a standard technology package to support multimedia teaching needs during the Fall Semester 2006. The remaining 40% will be completed by the Fall Semester 2007.
- » Planning progressing for Enterprise Helpdesk Consolidation Initiative

- **Project Management**

- » Personal Response System expansion
  - Expansion includes approximately 9 disciplines, 20 faculty members and 1,800 students
- » Student Information Network/Campus Information Network (SIN/CIN) pilot
  - Various campus locations will be equipped with multimedia equipment that will allow for the dissemination of student centric information. (Want to know what's happening on campus next week? SIN/CIN will keep you informed.)



OFFICE OF THE REGISTRAR  
103 Parker Hall  
1870 Miner Circle  
Rolla, MO 65409-0930  
Phone: 573.341.4181  
Fax: 573.341.4362  
registrar@umr.edu  
campus.umr.edu/registrar

Memo To: Academic Council  
From: UMR Campus Curriculum Committee Meeting  
RE: October 24, 2006 Meeting

**The UMR Campus Curricula Committee recommends to the Academic Council that the curriculum changes and degree proposals on the following DC forms be approved.**

**Approved DC forms:**

DC 0201, College of Arts & Sciences, Biological Sciences, approved effective Fall 2007. A proposal to change the current curriculum for the BA and BS in Biological Sciences by splitting Biological Sciences 211 into a lecture class 211 and a lab class 212.

DC 0204, College of Arts & Sciences, Biological Sciences, Chemistry, Computer Science, Mathematics and Statistics, Physics, Business Administration, Information Science and Technology, and Engineering Management, approved effective Fall 2007. A proposal to create a new degree called a Professional Science Master's Degree.

DC 0206, SoMEER, Ceramic Engineering, approved effective Fall 2007. A proposal to change the current curriculum for the BS in Ceramic Engineering.

DC 0207, College of Arts & Sciences, Psychology, approved effective Spring 2007. A proposal to add an additional minor in Psychology called Psychometrics.

DC 0208, SoMEER, Metallurgical Engineering, approved effective Fall 2007. A proposal to modify the current curriculum for the BS in Metallurgical Engineering.

DC 0210, School of Engineering, Environmental Engineering, approved effective Fall 2007. A proposal to modify the current curriculum for the BS in Environmental Engineering.

DC 0211, SoMEER, Geology and Geophysics, approved effective Fall 2007. A proposal to modify the current curriculum for the BS in Geology and Geophysics.

**The UMR Campus Curricula Committee recommends to the Academic Council that the course changes on the following CC forms be approved.**

**Approved CC forms:**

CC 7031, Biological Sciences 211, Cellular Biology. The following changes are approved effective Fall 2007.

Course Title – Proposed: Cell Biology



**OFFICE OF THE REGISTRAR**  
103 Parker Hall  
1870 Miner Circle  
Rolla, MO 65409-0930  
Phone: 573.341.4181  
Fax: 573.341.4362  
registrar@umr.edu  
campus.umr.edu/registrar

**Catalog Description – Proposed:** The structure and function of eukaryotic and prokaryotic cells. Emphasis on macromolecules, organelles, metabolic pathways, bioenergetics, cell signaling, the cycle, and information processing.

**Credit Hours – Present:** Lecture: 3 Lab: 1 Total: 4

**Proposed:** 3 hour lecture

CC 7032, Biological Sciences 212, Cell Biology Laboratory. The following changes are approved effective Fall 2007.

**Catalog Description:** Laboratory course to accompany Cell Biology (Biol 211).

Laboratory work includes microscopy, biochemical assays, enzymology, and genetic analysis (PCR, mapping, electrophoresis, transfection, sequencing).

**Credit Hours:** 1 hour lab

**Prerequisites:** Preceded or accompanied by Biol 211

CC 7066, Computer Science 71, Introduction to Basic. Course deletion approved effective Spring 2007.

CC 7067, Computer Science 72, Software Application on the PC. Course deletion approved effective Spring 2007.

CC 7068, Computer Science 137, Assembly Language Programming. Course deletion approved effective Spring 2007.

CC 7069, Computer Science 260, Introduction to Operations Research. Course deletion approved effective Spring 2007.

CC 7070, Computer Science 273, Software Systems Survey I. Course deletion approved effective Spring 2007.

CC 7071, Computer Science 274, Software Systems Survey II. Course deletion approved effective Spring 2007.

CC 7072, Computer Science 360, Deterministic Modeling. Course deletion approved effective Spring 2007.

CC 7073, Computer Science 366, Statistics 346, Regression Analysis. Course deletion approved effective Spring 2007.

CC 7074, Computer Science 376, Operations Research Techniques for Managerial Decisions. Course deletion approved effective Spring 2007.

CC 7075, Computer Science 422, Numerical Differential Equations. Course deletion approved effective Spring 2007.





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campus.umr.edu/registrar

CC 7076, Computer Science 428, Parallel Numerical Linear Algebra. Course deletion approved effective Spring 2007.

CC 7084, History 361, American Environmental History. New course approved effective Spring 2007.

Catalog Description: This class discusses the impact of human interactions with the physical environment and the natural world's influence on human civilizations with emphasis on the 19<sup>th</sup> and 20<sup>th</sup> centuries.

Credit Hours: 3 hour lecture

Prerequisites: Hist 112 or Hist 175 or Hist 176

CC 7085, Statistics 211, Statistical Tools for Decision Making. The following changes are approved effective Spring 2007.

Prerequisites – Present: Math 8 or 14 with a grade of “C” or better

Proposed: Math 8 or 12 or 14 with a grade of “C” or better

CC 7095, Biological Sciences 452, Space Biology. The following changes are approved effective Spring 2007.

Course Title – Proposed: Astrobiology

Catalog Description – Proposed: The origins of life on early earth and the possibility of life on extraterrestrial bodies will be explored in this course through lectures and journal article discussions. In addition, the means to study extraterrestrial environments will be considered.

CC 7097, IST 480, Social Informatics. New course approved effective Spring 2007.

Catalog Description: The course examines web and new-media technologies from a socio-psychological perspective. The class will focus on recent innovations, integrating these approaches into class interaction and student projects.

Credit Hours: 3 hour lecture

Prerequisites: Graduate standing

CC 7098, IST 343, Database Applications in Business. New course approved effective Fall 2007.

Catalog Description: Design, development and implementation of application software typical to the modern business environment utilizing popular commercial database management systems such as Oracle and Access. Focus given to business case modeling, requirement analysis, database design, and implementation challenges. Project oriented.

Credit Hours: 3 hour lecture

Prerequisites: IST 243



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CC 7099, Metallurgical Engineering 355, Process Metallurgy Applications. The following changes are approved effective Fall 2007.

Credit Hours – Present: 2 hour lecture  
Proposed: 3 hour lecture  
Prerequisites – Present: Mt Eng 281  
Proposed: Cr Eng 259

CC 7100, Metallurgical Engineering 354, Metallurgical Process Simulation and Control. The following changes are approved effective Fall 2007.

Course Title – Proposed: Electrical Systems and Controls for Materials  
Catalog Description – Proposed: This course will cover analysis of alternating and direct current circuits as experienced in the materials industry. Current, voltage, and power relationships in single and three-phase electrical power systems. Introduction to continuous and batch instrumentation including programmable logic controllers (PLCs) and computer interfacing for materials applications.  
Credit Hours – Present: 1 hour lecture  
Proposed: 2 hour lecture, 1 hour lab, Total: 3.0  
Prerequisites – Present: Mt 121, Mt 125,, Mt 126  
Proposed: Physics 24

CC 7101, Ceramic Engineering 262, Ceramic Engineering Design Lab. The following changes are approved effective Fall 2007.

Course Title – Proposed: Materials Senior Design II  
Catalog Description – Proposed: A continuation of the Materials Senior Design I. Students working in groups will complete a capstone design project including process and product simulation and/or fabrication, safety aspects, environmental impact and capital and operating economics.  
Prerequisites – Present: Cr Eng 261  
Proposed: Cr Eng 261 or Mt Eng 261  
Co-listing: Mt Eng 262

CC 7102, Ceramic Engineering 261, Ceramic Engineering Design Laboratory. The following changes are approved effective Fall 2007.

Course Title – Proposed: Materials Senior Design I  
Catalog Description – Proposed: Students working in groups will be assigned a capstone design project related to a specific materials technology. This course will focus on project plan and all aspects of product and process design.  
Prerequisites – Present: Cr Eng 242  
Proposed: Senior Standing  
Co-listing: Mt Eng 261

CC 7103, Ceramic Engineering 259, Thermodynamics of Solid State Materials. The following changes are approved effective Fall 2007.



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Course Title – Proposed: Thermodynamics of Materials

Catalog Description – Proposed: Basic thermodynamics concepts are applied to materials. Calculations involving enthalpy entropy, and Gibbs' free energy are studied. Inter-relationships among properties are emphasized. Fundamental concepts of phase equilibria are presented.

Prerequisites – Present: None

Proposed: Mt Eng 125 or Chem 3

CC 7104, Metallurgical Engineering 126, Computer Application in Metallurgical Engineering. Course deletion approved effective Fall 2007.

CC 7105, Geological Engineering 352, Metallurgical Engineering 352, Ceramic Engineering 352, International Engineering & Design. New course approved effective Spring 2007.

Catalog Description: A multi-disciplinary engineering course focused on sustainable design and technology transfer to developing countries. Course includes elements of traditional capstone design classes. Experiential learning through competitions and/or field work is a major component of the class.

Credit Hours: 2 hour lecture, 1 hour lab, Total: 3

Prerequisites: Senior standing, instructor approval

CC 7106, Biological Sciences 310, Senior Seminar. The following change is approved effective Fall 2007.

Credit Hours – Present: Variable

Proposed: 1 hour lecture

CC 7107, Biological Sciences 402, Problems in Applied and Environmental Biology. The following change is approved effective Spring 2007.

Credit Hours – Present: 2 hour lecture

Proposed: Variable 0-3

CC 7108, Computer Science 319, Management of Computing Services. The following changes are approved effective Fall 2007.

Course Title – Proposed: Security Operations & Program Management

Catalog Description – Proposed: An overview of information security operations, access control, risk management, systems and application life cycle management, physical security, business continuity planning, telecommunications security, disaster recovery, software piracy, investigations, ethics and more. There will be extensive reporting, planning and policy writing.

Prerequisites – Present: Consent of instructor required

Proposed: Writing Emphasized course and Operating System course and Computer Networking course



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CC 7109, Math 354, Computer Science 354, Philosophy 354, Mathematical Logic I. The following change is approved effective Spring 2007.

Prerequisites – Present: Phil 15 with junior standing or Math 305 or Comp Sci 253

Proposed: Phil 15 with junior standing or Math 305 or Comp Sci 253 or  
Comp Eng 111

Co-listing: Comp Sci 354, Phil 354

CC 7110, Computer Engineering 354, Mathematical Logic I. New course approved effective Summer 2007.

Catalog Description: A mathematical introduction to logic with some applications. Functional and relational languages, satisfaction, soundness and completeness theorems, compactness theorems. Examples from Mathematics, Philosophy, Computer Science, and/or Computer Engineering.

Credit Hours: 3 hour lecture

Prerequisites: Phil 15 with junior standing or Math 305 or Comp Sci 253 or Comp Eng 111

Co- listing: Comp Sci 354, Phil 354, Math 354

CC 7111, Nuclear Engineering 317, Two-phase Flow in Energy Systems. New course approved effective Spring 2007.

Catalog Description: It is an introductory course for both undergraduate or graduate students who are interested in the application of two-phase flow in energy systems. It will acquaint students with governing equations for both single-phase and two-phase fluid flow, state-of-the-art analytical methods and various two-phase flow phenomena related to energy systems.

Credit Hours: 3 hour lecture

Prerequisites: NE 221 or Ch Eng 231 or ME 231

CC 7113, Geology 52, Evolution of the Earth. The following changes are approved effective Spring 2007.

Catalog Description – Proposed: A survey of the Earth history from the coalescence of the solar system to the present and the events that have profoundly transformed the planet in the context of the dynamic feedback between physical and biological systems. A one day field trip is required.

Credit Hours – Present: 3 hour lecture, 1 hour lab, Total: 4

Proposed: 3 hour lecture

CC 7114, Geology 51, Physical and Environmental Geology. The following changes are approved effective Spring 2007.

Catalog Description – Proposed: Materials, structure, and surface features of the Earth and planets are studied in the context of the processes that continuously transform the Earth and affect management of Earth resources, hazards, and environmental challenges. A one day field trip is required.



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Credit Hours – Present: 3 hour lecture, 1 hour lab, Total: 4

Proposed: 3 hour lecture

Prerequisites – Present: None

Proposed: Entrance requirements

CC 7115, Geology 54, Evolution of the Earth Laboratory. New course approved effective Spring 2007.

Catalog Description: Geol 54 is designed to accompany Geol 52 and consists of laboratory explorations of fundamental concepts in geology and the diversity of the fossil record.

Credit Hours: 1 hour lab

Prerequisites: Preceded or accompanied by Geol 52

CC 7116, Geology 446, Geological Engineering 446, Advanced Remote Sensing and Image Processing. New course approved effective Spring 2007.

Catalog Description: Quantitative methods of utilizing remote sensing technology for terrain analysis. Digital imaging processing.

Credit Hours: 2 hour lecture, 1 hour lab, Total: 3

Prerequisites: Ge Eng 346

Co-listing: Ge Eng 446

CC 7117, Geology 346, Geological Engineering 346, Applications of Geographic Information Systems. New course approved effective Spring 2007.

Catalog Description: Applications of Geographical Information systems and remote sensing to environmental monitoring, mineral resource exploration, and geotechnical site evaluation.

Credit Hours: 2 hour lecture, 1 hour lab, Total: 3

Prerequisites: Ge Eng 275 or consent of instructor

Co-listing: Ge Eng 346

CC 7118, Geology 248, Geological Engineering 248, Fundamentals of Geographic Information Systems. New course approved effective Spring 2007.

Catalog Description: Introduction to the fundamental concepts and components of Geographic Information Systems. Techniques for acquiring, manipulating and analyzing digital terrain data for geological and geotechnical applications.

Credit Hours: 2 hour lecture, 1 hour lab, Total: 3

Prerequisites: Ge Eng 275

Co-listing: Ge Eng 248

CC 7119, Geology 344, Geological Engineering 344, Remote Sensing Technology. New course approved effective Spring 2007.

Catalog Description: Principals of digital image processing including image enhancement and multi-spectral classification. Emphasis upon design and implementation of



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remote sensing systems and analysis of remotely sensed data for geotechnical and environmental investigations.

Credit Hours: 2 hour lecture, 1 hour lab, Total: 3

Prerequisites: Ge Eng 248

Co-listing: Ge Eng 344

CC 7120, Geology 53, Physical and Environmental Geology Laboratory. New course approved effective Spring 2007.

Catalog Description: Geol 53 is designed to accompany Geol 51 and consists of laboratory explorations of the study of common rocks and minerals, air photographs, maps, and case studies of geological problems related to management of Earth resources, hazards, and environmental challenges.

Credit Hours: 1 hour lab

Prerequisites: Preceded or accompanied by Geol 51

CC 7141, Psychology 303, Psychometrics. New course approved effective Spring 2007.

Catalog Description: The application of statistical methods to the study of human behavior in the design and analysis of research and in the measurement of human characteristics and individual differences.

Credit Hours: 3 hour lecture

Prerequisites: Psych 50 and Psych 140

CC 7142, Metallurgical Engineering 262, Materials Senior Design II. New course approved effective Fall 2007.

Catalog Description: A continuation of the Materials Senior Design I. Students working in groups will complete a capstone design project including process and product simulation and/or fabrication, safety aspects, environmental impact and capital and operating economics.

Credit Hours: 1 hour lab

Prerequisites: Cr Eng 261 or Mt Eng 261

Co-listing: Cer Eng 262

CC 7143, Metallurgical Engineering 261, Materials Senior Design I. New course approved effective Fall 2007.

Catalog Description: Students working in groups will be assigned a capstone design project related to a specific materials technology. This course will focus on project plan and all aspects of product and process design.

Credit Hours: 1 hour lab

Prerequisites: Senior standing

Co-listing: Cer Eng 261

CC 7144, Geological Engineering 446, Geology 446, Advanced Remote Sensing and Image Processing. The following changes are approved effective Spring 2007.



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Prerequisite – Present: Ge Eng 246  
Proposed: Ge Eng 346  
Co-listing: Geology 446

**For the information of the Academic Council, the following EC forms have been submitted by the University departments for an experimental course that will be offered in the near future.**

**Approved EC forms:**

EC 1824, Computer Science 401, Cyber Security Research & Development, approved effective Spring 2008.

Course Description: Advanced research topics in cyber security will be used to address real-world security problems. Problem-based learning (PBL) as well as experiential learning, centered around team projects, will be used to prepare students for cyber security R&D jobs in industry, government, national labs and academia.

Credit Hours: 3 hour lecture

Prerequisites: Cmp Sc 384 or Cmp Sc 385 or Cmp Sc 483 or Cp Eng 349

EC 1832, Art 201, Artists and the Art of Documentary, approved effective Spring 2007.

Course Description: This course will explore the artistic process as presented in documentaries and feature films, allowing investigation into both art history and film. "Artist at work" documentaries to be screened include BURDEN OF DREAMS and RIVERS AND TIDES.

Credit Hours: 3 hour lecture

Prerequisites: Art 80 or Art 85

EC 1833, History 301, European Migration, Emigration and Immigration, approved effective Spring 2007.

Course Description: Surveys migration, emigration and immigration patterns in Europe, in context of global population movements from ancient times through the present. Students will learn the push and pull factors and analyze and synthesize the personal decisions involved in these movements.

Credit Hours: 3 hour lecture

Prerequisites: History 112

EC 1844, Biological Sciences 201, Principles of Human Nutrition, approved effective Spring 2007.

Course Description: The study of the nutrients derived from foods, their reactions, interactions, and physiological impact; and subsequent application of knowledge acquired to health improvement.

Credit Hours: 3 hour lecture

Prerequisites: Bio Sci 110 or Bio Sci 111 or any college level chemistry course



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EC 1848, Education 301, Teachers' Academy: Effective Instructional Strategies, approved effective Spring 2007.

Course Description: Participants will develop an understanding of research-based instruction and the ability to implement the instructional strategies in their classrooms. In addition to effective instructional practices, the teachers' academy will focus on leadership, empowerment, collaboration and renewal.

Credit Hours: 3 hour lecture

Prerequisites: Graduate standing

EC 1849, IST 301, ERP System Administration, approved effective Summer 2007.

Course Description: System administration and performance monitoring practices for an Enterprise Resource Planning (ERP) system will be studied. Students will install an instance of an ERP system and establish user management attributes and system security.

Credit Hours: 3 hour lecture

Prerequisites: IST 346 or extensive SAP experience

EC 1850, IST 301, Use of Business Intelligence, approved effective Fall 2007.

Course Description: Application of "intelligent" techniques from CS (AI, data mining), and OR (stochastic modeling, simulation, forecasting) to business decision-making. Overview of the theory, but with a focus on the application to business problem solving. Use of SAP as a tool to access and present data, search for patterns, and identify exceptions, as well as forecast, optimize, and schedule resources.

Credit Hours: 3 hour lecture

Prerequisites: Database experience

EC 1851, Education 301, School Leadership (SAP-Satellite Academy Program), approved effective Spring 2007.

Course Description: The focus of this course is to develop school leaders who can positively and significantly impact student performance through effective school improvement practices. Participants will develop the understanding of change processes, data collection and analysis and professional development for teaching and learning.

Credit Hours: 3 hour lecture

Prerequisites: Graduate standing

EC 1852, Finance 301, Portfolio Management, approved effective Spring 2007.

Course Description: This course introduces a wide variety of financial securities and asset pricing theories. The focus of the course is on the fundamentals of portfolio management, with an aim to help students develop important skills needed to succeed as an investment professional.

Credit Hours: 3 hour lecture

Prerequisites: Finance 250 or equivalent





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EC 1853, Mining Engineering 401, Mine Management II, approved effective Spring 2007.

Course Description: The course covers advanced concepts in managing mine operations.

Topics to be covered include: TQM, statistical process control, benchmarking, KPI, standards and standardization, ISO 9000: Quality Control, ISO 14000:

Environmental systems, OHSAS 18000: Management systems, SA8000: Social Accountability and others.

Credit Hours: 3 hour lecture

Prerequisites: Consent of instructor

EC 1854, Psychology 301, Psychometrics, effective Spring 2007. This form was approved as a CC since the course is required in a minor curriculum. See CC 7141.

EC 1855, IST 401, Information Network Analysis, approved effective Fall 2007.

Course Description: Focus is on applied analysis of complex information networks in the form of web and text systems. Topics include web system link analysis, text mining, consensus analysis, collaborative filtering, recommender systems. Uses interactive data analysis tools such as SAS.

Credit Hours: 3 hour lecture

Prerequisites: Database and Statistics Familiarity

EC 1856, Spanish 301, Advanced Spanish Grammar, approved effective Fall 2007.

Course Description: The goals of the course are to identify and describe the intuitive knowledge that a native speaker possesses of Spanish and to deepen the non-native student's knowledge of various aspects of Spanish grammar via theoretical explanations and problem-solving.

Credit Hours: 3 hour lecture

Prerequisites: Span 180

EC 1857, Engineering Management 401, Systems Engineering 401, Advanced Financial Engineering, approved effective Spring 2007.

Course Description: Additional topics in the theory and practice of financial engineering and financial risk management, including market risk, credit risk, credit derivatives, operational risk, exotic options, interest rate derivatives, the Basel accord, financial engineering case studies, ethics, and corporate governance.

Credit Hours: 3 hour lecture

Prerequisites: EMgt 481 or Sys Eng 481

EC 1858, Engineering Management 401, Global Project Management, approved effective Spring 2007.

Course Description: In depth and advanced topics in project management including project management methodologies, strategic planning for excellence, project



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portfolio management, integrated processes, culture, and behavioral excellence;  
normally includes a hands-on group project.

Credit Hours: 3 hour lecture

Prerequisites: EMgt 361

EC 1859, Electrical Engineering 401, Advanced Power Electronics, approved effective Spring 2007.

Course Description: This advanced power electronics course is designed for graduate-level students and covers the following topics: advanced power electronic converters, soft switching techniques, small signal analysis, voltage and current mode control, thermal design, and drive circuits.

Credit Hours: 3 hour lecture

Prerequisites: EE 353

EC 1860, Business 301, Business Information Systems, approved effective Spring 2007.

Course Description: This course familiarizes the students with the fundamental concepts and principles of business information systems. Topics covered include electronic commerce, wireless technology and its applications, enterprise applications, knowledge management, decision-making systems, and systems analysis and design. Programming knowledge is required.

Credit Hours: 3 hour lecture

Prerequisites: IST 51 or CS 53 or equivalent; and IST 141 or IST 246

EC 1861, Biological Sciences 301, MSE 301, Tissue Engineering I, approved effective Spring 2007.

Course Description: This course will introduce senior undergraduate students to the principles and clinical applications of tissue engineering, involving the use of biomaterials scaffolds, living cells and signaling factors to develop implantable parts for the restoration, maintenance, or replacement of biological tissues and organs.

Credit Hours: 3 hour lecture

Prerequisites: Senior standing

EC 1862, Biological Sciences 401, MSE 401, Tissue Engineering II, approved effective Spring 2007.

Course Description: This course will introduce graduate students to the principles and clinical applications of tissue engineering, involving the use of biomaterials scaffolds, living cells and signaling factors to develop implantable parts for the restoration, maintenance, or replacement of biological tissues and organs. A term paper and oral presentation on a tissue engineering topic are executed.

Credit Hours: 3 hour lecture

Prerequisites: Graduate standing



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EC 1863, Computer Science 301, Software Requirements Engineering, approved effective Spring 2007.

Course Description: Software Requirements Engineering (SRE) covers all the activities involved in discovering, analyzing, specifying and managing software requirements for a software system from multiple perspectives. In this course students will study how to elicit, analyze, specify, validate, and manage software requirements using advanced software requirements modeling methods, processes and tools.

Credit Hours: 3 hour lecture

Prerequisites: CS 206

EC 1864, Math 201, Philosophy 201, Computer Engineering 201, Lattices and Ordered Structures and their Applications, approved effective Spring 2007.

Course Description: Ordered sets, Lattices, CPOs, Domains, Information systems, Fix-point theorems, Modularity and distributivity, Boolean algebras, Ideals and filters, Formal Concept Analysis, Chain conditions, Duality, Sublattices, Products, Homomorphisms, Disjunctive Normal Form, Representation Theory, Applications to Computers and Philosophy; The laboratory will focus on problem solving and applications in a technological setting.

Credit Hours: 2 hour lecture, 1 hour lab, Total: 3

Prerequisites: Sophomore standing; Math 209 or Cmp Sc 158 or Cmp Eng 111 or Phil 15

EC 1865, Environmental Engineering 301, Architectural Engineering 301, Indoor Air Pollution, approved effective Spring 2007.

Course Description: Indoor air pollution sources, physics, chemistry and consequences. Students learn how radon, cigarette smoke, VOCs from furnishing, etc. affect indoor air quality and how standards are set to improve indoor health and comfort. Students apply engineering analysis to building air to specify ventilation rates, choose furnishings and minimize occupant exposure to pollutants.

Credit Hours: 3 hour lecture

Prerequisites: CE 261 and ME 371; or Graduate Status

EC 1868, Geophysics 301, MSE 301, Ceramic Engineering 301, Computational Geophysics, approved effective Spring 2007.

Course Description: Scientific programming in a UNIX environment, with emphasis on solving geophysical problems such as linear and nonlinear inversion, spectral analysis, seismicity, seismic wave attenuation, shear-wave splitting, and seismic tomography.

Credit Hours: 1 hour lecture, 2 hour lab, Total: 3



J. Keith Nisbett, Chair  
UMR Campus Curricula Committee

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# Academic Council

@ University of Missouri Rolla

August 7, 2006

Dr. Warren K. Wray  
Provost

Re. Voting on Tenure by Non-Primary Department Faculty Members


Dear Provost Wray,

At its meeting on February 23, 2006, the Academic Council voted on and approved a motion from the Tenure committee regarding voting on tenure decisions by faculty members with a different primary department. The motion that was approved reads:

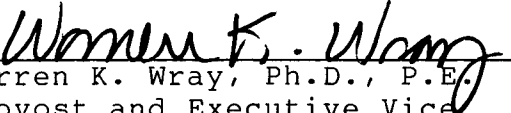
“No one in the non-primary department (the non-tenure department) has a vote in the applicant’s tenure decision.”

This motion may also be found in the minutes of the meeting at: <http://campus.UMR.edu/acadcoun/archive/minutes/2006/acmin.2.23.06.pdf>. On behalf of Academic Council, I respectfully request your consideration of this matter and a response regarding your support of the implementation of this policy. Please contact me if you feel further discussion on this topic is appropriate.

Respectfully submitted,

  
Robert W. Schwartz  
President

Approved/~~Disapproved~~

  
Warren K. Wray, Ph.D., P.E.  
Provost and Executive Vice  
Chancellor for Academic Affairs

8/21/06  
Date

# Academic Council

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@ University of Missouri Rolla

August 7, 2006

Dr. Warren K. Wray  
Provost

Re. Campus Promotion and Tenure Committee Composition

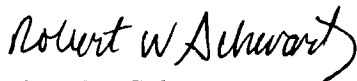
Dear Provost Wray,

At its meeting on February 19, 2004, the Academic Council voted on and approved a motion from the Tenure committee regarding the composition of the campus promotion and tenure committee. This motion read:

“Membership of the Campus Promotion and Tenure Review Committee shall consist of full tenured professors exclusive of department chairs, assistant/associate deans, deans and other administrators with 50% or more administrative appointment. Schools and colleges with an insufficient number of eligible full professors may substitute tenured associate professors who will recuse themselves from voting on tenure for full professors and promotion to full professor.”

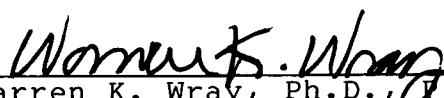
I apologize that the specific language of this motion does not appear in the minutes of the meeting, but it may be verified by contacting the Tenure committee. In the past, the campus promotion and tenure committee has included members who were chairs or associate deans. The UMR “Promotion and Tenure Procedures” ([http://campus.umr.edu/provost/prom\\_ten.html](http://campus.umr.edu/provost/prom_ten.html)) do not specifically address this issue, but I believe it would be helpful for the Administration and Academic Council to be in agreement regarding this point. Therefore, I would like to request your consideration of this matter and whether the specific language of the Academic Council motion should be added to the above document.

Respectfully submitted,



Robert W. Schwartz  
President

Approved/~~Disapproved~~



Warren K. Wray, Ph.D., J.E.  
Provost and Executive Vice  
Chancellor for Academic Affairs

8/21/06  
Date



August 7, 2006

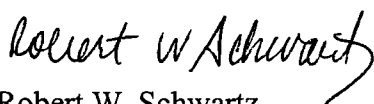
Dr. Warren K. Wray  
Provost

Re. Revision to the Instructor Drop Policy - Absences

Dear Provost Wray,

The attachment describes the recommended changes in the instructor drop policy that were approved at the April 20, 2006 Academic Council meeting. Minutes of this meeting, including the motion that was passed regarding this topic, may be found at: <http://campus.UMR.edu/acadcoun/archive/minutes/2006/acmin.4.20.06.pdf>. Because the modification requires a change to the Student Academic Regulations manual, I am forwarding you this revision for your consideration. If you approve of the revision, I would request that you work with the Registrar's office to update the manual appropriately and to confirm with Academic Council that this issue has been considered and approved. Please contact me if you feel further discussion on this topic is needed.

Respectfully submitted,

  
Robert W. Schwartz  
President

## V. Absences

A. Administration of attendance policy lies with the individual instructor for each course. The individual instructor determines the number and nature of unexcused absences allowable in each course. Sanctions may be imposed for excessive absences up to and including dismissal from the course. If the instructor intends to attach a formal sanction (grade reduction or dismissal from the course) to inadequate attendance, he/she must include in the course syllabus the specific expectations and steps to be taken in such cases. Such steps will include an academic alert initiated in time to provide due warning before the absence which will give rise to the drop.

B. If the student accrues sufficient absences to warrant dismissal in accordance with the course syllabus, he/she will be dropped from that class by the Office of the Registrar at the written request of the instructor. No grade will be recorded if this action takes place prior to the end of six weeks (three weeks during an eight-week summer session). During the period after six (6) weeks of a semester and prior to three (3) weeks before the end of classes, a withdrawal will be recorded on the transcript if the instructor drops the student from the course. The instructor may not affect a withdrawal from the course during the last three (3) weeks of classes or during Final Examination Week.

C. Any work missed for any reason must be made up to the satisfaction of the instructor concerned.

D. Each department and school may adopt absence regulations in addition to those of the individual instructor. These regulations should be either posted on department bulletin boards or incorporated as part of each course syllabus.